

State of California
The Resources Agency

DEPARTMENT OF WATER RESOURCES
Division of Operations and Maintenance

STATE WATER PROJECT OPERATIONS DATA

For the month of:
September 2004

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Governor
State of California

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Secretary for Resources
The Resources Agency

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State of California
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MONTHLY HIGHLIGHTS

The following highlights are activities or actions that impacted State Water Project operations during the month of September 2004.

Statewide precipitation was 90 percent of average for the 2003-2004 water year as of September 30. September 30 marks the end of the operational water year. Statewide runoff was 80 percent of average for the water year. Precipitation percentages are used in this report to express historical and regional comparisons. Additional and more specific information is available via the internet at: <http://cdec.water.ca.gov/snow-rain.html>.

On September 30, total storage in major SWP reservoirs was about 2.90 MAF, compared with about 3.61 MAF at this time in 2003. The average storage in the major SWP reservoirs at the end of September was about 3.31 MAF. The September 30 storage at Lake Oroville was about 1.75 MAF as compared to 2.29 MAF at this time last year. The State's share of San Luis Reservoir storage was about 505 TAF, as compared with 653 TAF at this time last year. On September 30, the combined storage in our southern reservoirs was about 650 TAF, compared with about 664 TAF at this time last year.

Through September, SWP water deliveries for 2004 were about 2.76 MAF. This is a combination of project, transfer, and exchange waters. This is 58 TAF more than was delivered during the same period in 2003.

Throughout the month of September, USBR and DWR agreed that conditions in the Delta were balanced with suspended COA accounting.

Banks Pumping Plant was unavailable and forced out, from 1239 to 2010, September 9, due to a boom truck falling into the fore bay while Civil Maintenance was removing weeds. Banks Pumping Plant was removed from service to accommodate removal of the truck, and to contain any oil and/or diesel to the local area. No hydrocarbons were released into the California Aqueduct.

Several earthquakes occurred during the weekend of September 17. The first, of magnitude 5.9, was reported at 1602, September 18 about 10 miles SSW of Mono Lake. The second, of magnitude 4.9, was reported at 1649, September 18, about 24 miles NE of Benton. The third, of magnitude 3.2, was reported at 0524, September 19 about 30 miles E of Bridgeport, California. The fourth, of magnitude 4.1, was reported at 2256, September 20, at about 70 miles NNE of Independence, CA. No damage to the State Water Project noted after inspections.

Several large earthquakes were recorded from 1029 through 1715 on September 28. The largest was magnitude 5.9 at 1030 in the vicinity of Parkfield, California. No damage to the State Water Project noted after inspections.

Table 1. Antelope Lake

Daily Operation

(in acre-feet except as noted)

Capacity: 22,566 ac-ft

September 2004

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow in cfs					Computed Inflow (cfs)	
				Regulated Release			Spill	Estimated Evaporation And Seepage		
				Stream-flow Maint.	Water Supply Contract	Water Right				
Aug 31	4997.37	18,487								
1	4997.30	18,429	-58	20	0	0	0	9	29	
2	4997.24	18,380	-49	20	0	0	0	6	26	
3	4997.18	18,330	-50	20	0	0	0	6	26	
4	4997.10	18,264	-66	20	0	0	0	13	33	
5	4997.05	18,223	-41	20	0	0	0	6	26	
6	4996.98	18,165	-58	20	0	0	0	9	29	
7	4996.93	18,124	-41	20	0	0	0	6	26	
8	4996.86	18,067	-57	20	0	0	0	9	29	
9	4996.80	18,018	-49	20	0	0	0	6	26	
10	4996.72	17,953	-65	20	0	0	0	13	33	
11	4996.66	17,904	-49	20	0	0	0	6	26	
12	4996.59	17,847	-57	20	0	0	0	9	29	
13	4996.52	17,790	-57	20	0	0	0	9	29	
14	4996.46	17,742	-48	20	0	0	0	7	27	
15	4996.40	17,693	-49	20	0	0	0	5	25	
16	4996.34	17,645	-48	20	0	0	0	4	24	
17	4996.27	17,588	-57	20	0	0	0	9	29	
18	4996.20	17,532	-56	20	0	0	0	8	28	
19	4996.13	17,476	-56	20	0	0	0	8	28	
20	4996.07	17,428	-48	20	0	0	0	4	24	
21	4996.02	17,388	-40	20	0	0	0	0	20	
22	4995.96	17,340	-48	20	0	0	0	4	24	
23	4995.90	17,292	-48	20	0	0	0	4	24	
24	4995.85	17,252	-40	20	0	0	0	0	20	
25	4995.79	17,205	-47	20	0	0	0	4	24	
26	4995.73	17,157	-48	20	0	0	0	4	24	
27	4995.67	17,109	-48	20	0	0	0	5	25	
28	4995.60	17,054	-55	20	0	0	0	8	28	
29	4995.58	17,038	-16	20	0	0	0	0	20	
30	4995.49	16,967	-71	20	0	0	0	16	36	
Total cfs-days				---	600	0	0	197	797	
Total ac-ft				-1,520	1,190	0	0	390	1,580	
									60	

Table 2. Frenchman Lake

Daily Operation

(in acre-feet except as noted)

Capacity: 55,477 ac-ft

September 2004

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow in cfs						Computed Inflow (cfs)	
				Regulated Release			Spill	Estimated Evaporation And Seepage	Total Outflow		
				Stream-flow Maint.	Water Supply Contract	Water Right					
Aug 31	5762.72	23,948									
1	5562.69	23,920	-28	0	9	0	0	5	14	0	
2	5562.66	23,892	-28	0	11	0	0	3	14	0	
3	5562.58	23,817	-75	0	14	0	0	24	38	0	
4	5562.53	23,770	-47	0	22	0	0	2	24	0	
5	5562.46	23,704	-66	0	22	0	0	11	33	0	
6	5562.40	23,648	-56	0	22	0	0	6	28	0	
7	5562.37	23,620	-28	0	22	0	0	0	22	8	
8	5562.33	23,583	-37	0	20	0	0	0	20	1	
9	5562.22	23,481	-102	0	20	0	0	31	51	0	
10	5562.15	23,416	-65	0	21	0	0	12	33	0	
11	5562.08	23,351	-65	0	21	0	0	12	33	0	
12	5562.02	23,295	-56	0	21	0	0	7	28	0	
13	5561.97	23,249	-46	0	20	0	0	3	23	0	
14	5561.90	23,185	-64	0	19	0	0	13	32	0	
15	5561.84	23,129	-56	0	14	0	0	14	28	0	
16	5561.80	23,092	-37	0	11	0	0	8	19	0	
17	5561.77	23,065	-27	0	11	0	0	3	14	0	
18	5561.70	23,001	-64	0	11	0	0	21	32	0	
19	5561.66	22,964	-37	0	11	0	0	8	19	0	
20	5561.52	22,836	-128	0	11	0	0	54	65	0	
21	5561.47	22,790	-46	0	13	0	0	10	23	0	
22	5561.56	22,872	82	0	9	0	0	0	9	50	
23	5561.59	22,980	108	0	6	0	0	0	6	60	
24	5561.63	22,936	-44	0	6	0	0	16	22	0	
25	5561.62	22,927	-9	0	6	0	0	0	6	1	
26	5561.55	22,863	-64	0	6	0	0	26	32	0	
27	5561.62	22,927	64	0	4	0	0	0	4	36	
28	5561.72	23,019	92	0	3	0	0	0	3	49	
29	5561.80	23,092	73	1	1	0	0	0	2	39	
30	5561.76	23,056	-36	1	1	0	0	16	18	0	
Total cfs-days				- - -	2	388	0	0	305	695	245
Total ac-ft				-892	4	770	0	0	605	1,379	487

Table 3. Lake Davis

Daily Operation
(in acre-feet except as noted)

Capacity: 84,371 ac-ft

September 2004

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow in cfs						Computed Inflow (cfs)	
				Regulated Release			Spill	Estimated Evaporation And Seepage	Total Outflow		
				Stream-flow Maint.	Water Supply Contract	Water Right					
Aug 31	5763.45	44,785									
1	5763.42	44,701	-84	7	0	3	0	32	42	0	
2	5763.41	44,673	-28	7	0	3	0	4	14	0	
3	5763.38	44,588	-85	7	0	3	0	33	43	0	
4	5763.35	44,504	-84	7	0	3	0	32	42	0	
5	5763.32	44,420	-84	7	0	3	0	32	42	0	
6	5763.30	44,363	-57	7	0	3	0	19	29	0	
7	5763.28	44,307	-56	7	0	3	0	28	38	8	
8	5763.25	44,223	-84	7	0	3	0	32	42	0	
9	5763.22	44,139	-84	7	0	3	0	32	42	0	
10	5763.20	44,083	-56	7	0	3	0	18	28	0	
11	5763.17	44,000	-83	7	0	3	0	32	42	0	
12	5763.14	43,916	-84	7	0	3	0	32	42	0	
13	5763.13	43,888	-28	7	0	3	0	4	14	0	
14	5763.10	43,804	-84	7	0	3	0	32	42	0	
15	5763.07	43,721	-83	7	0	3	0	32	42	0	
16	5763.04	43,637	-84	7	0	3	0	32	42	0	
17	5763.03	43,610	-27	7	0	3	0	4	14	0	
18	5763.01	43,554	-56	7	0	3	0	18	28	0	
19	5762.98	43,471	-83	7	0	3	0	32	42	0	
20	5763.00	43,526	55	7	0	3	0	0	10	37	
21	5762.97	43,443	-83	7	0	3	0	32	42	0	
22	5762.94	43,360	-83	7	0	3	0	32	42	0	
23	5762.92	43,305	-55	7	0	3	0	18	28	0	
24	5762.91	43,277	-28	7	0	3	0	4	14	0	
25	5762.90	43,249	-28	7	0	3	0	4	14	0	
26	5762.87	43,167	-82	7	0	3	0	31	41	0	
27	5762.86	43,139	-28	7	0	3	0	4	14	0	
28	5762.84	43,084	-55	7	0	3	0	18	28	0	
29	5762.75	42,836	-248	7	0	3	0	115	125	0	
30	5762.74	42,809	-27	7	0	3	0	4	14	0	
Total cfs-days				---	210	0	90	0	742	1,042	
Total ac-ft				-1,976	417	0	179	0	1,471	2,066	
										90	

Table 4. Lake Oroville

Daily Operation

(in acre-feet except as noted)

Capacity: 3,537,580 ac-ft

September 2004

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow					Inflow	
				Hyatt Powerplant Generation 1/	Palermo Canal	Evaporation 2/	Spill	Total Outflow	Hyatt Powerplant Pumpback	Computed Inflow 3/
Aug 31	771.43	1,885,961								
1	770.86	1,880,193	-5,768	10,335	32	273	0	10,640	0	4,872
2	769.87	1,870,201	-9,992	12,671	32	212	0	12,915	0	2,923
3	768.91	1,860,551	-9,650	13,149	32	292	0	13,473	0	3,823
4	767.86	1,850,037	-10,514	12,830	32	358	0	13,220	0	2,706
5	767.26	1,844,048	-5,989	10,891	32	303	0	11,226	0	5,237
6	766.48	1,836,284	-7,764	10,927	32	308	0	11,267	0	3,503
7	765.77	1,829,237	-7,047	12,583	32	322	0	12,937	0	5,890
8	765.24	1,823,990	-5,247	8,440	32	321	0	8,793	0	3,546
9	764.82	1,819,839	-4,151	9,309	32	340	0	9,681	0	5,530
10	764.23	1,814,020	-5,819	7,400	32	320	0	7,752	0	1,933
11	764.28	1,814,414	394	2,102	32	298	0	2,432	0	2,826
12	763.99	1,811,656	-2,758	5,233	32	265	0	5,530	0	2,772
13	763.17	1,803,598	-8,058	10,861	32	212	0	11,105	0	3,047
14	762.53	1,797,327	-6,271	9,171	32	192	0	9,395	0	3,124
15	761.84	1,790,583	-6,744	9,795	32	304	0	10,131	0	3,387
16	761.43	1,786,585	-3,998	9,069	32	230	0	9,331	0	5,333
17	760.84	1,780,842	-5,743	9,062	32	223	0	9,317	0	3,574
18	760.98	1,782,204	1,362	1,458	32	223	0	1,713	0	3,075
19	761.00	1,782,398	194	2,971	32	223	0	3,226	0	3,420
20	760.92	1,781,620	-778	3,466	29	59	0	3,554	0	2,776
21	760.45	1,777,054	-4,566	6,409	29	197	0	6,635	0	2,069
22	760.22	1,774,822	-2,232	8,419	28	204	0	8,651	0	6,419
23	759.64	1,769,202	-5,620	9,007	28	204	0	9,239	0	3,619
24	759.32	1,766,104	-3,098	9,308	28	255	0	9,591	591	5,902
25	759.21	1,765,040	-1,064	4,611	28	267	0	4,906	0	3,842
26	758.73	1,760,402	-4,638	6,422	28	267	0	6,717	0	2,079
27	758.47	1,757,894	-2,508	6,312	28	260	0	6,600	0	4,092
28	758.32	1,756,448	-1,446	6,176	28	156	0	6,360	0	4,914
29	758.15	1,754,810	-1,638	5,874	28	123	0	6,025	0	4,387
30	757.96	1,752,980	-1,830	5,096	28	117	0	5,241	0	3,411
Total		-132,981	239,357	918	7,328	0	247,603	591	114,031	

1/ Includes bypass flows

2/ Evaporation will be zero for days when there is precipitation or heavy overcast.

3/ Does not include pumpback.

**Table 5. Thermalito Forebay
Including Diversion Pool and Power Canal**

Capacity: 25,120 ac-ft

Daily Operation
(in acre-feet except as noted)

September 2004

Date	Storage 1/	Storage Change	Inflow			Outflow					Losses (-) And Gains (+)
			Lake Oroville Releases 2/	Kelly Ridge Generation	Thermalito Pumping- Generating Plant Pumpback	Thermalito Pumping- Generating Plant Generation 3/	Butte County 4/	Thermalito Irrigation District	Releases To River 5/	Hyatt Powerplant Pumpback	
Aug 31	24,200										
1	23,925	-275	10,335	504	0	9,804	4	10	1,251	0	-45
2	23,711	-214	12,671	424	0	12,453	4	10	1,259	0	417
3	23,962	251	13,149	509	0	11,828	4	10	1,255	0	-310
4	23,561	-401	12,830	509	0	12,637	4	10	1,257	0	168
5	23,998	437	10,891	509	0	10,060	4	10	1,251	0	362
6	23,660	-338	10,927	509	0	10,501	4	10	1,257	0	-2
7	23,489	-171	12,583	438	0	12,208	4	11	1,257	0	288
8	24,641	1,152	8,440	509	0	6,611	4	11	1,255	0	84
9	24,568	-73	9,309	428	0	8,782	4	11	1,364	0	351
10	24,232	-336	7,400	508	0	6,790	4	11	1,319	0	-120
11	23,881	-351	2,102	506	0	1,552	4	11	1,247	0	-145
12	23,873	-8	5,233	422	0	4,212	4	11	1,311	0	-125
13	23,409	-464	10,861	504	0	10,344	4	11	1,317	0	-153
14	23,750	341	9,171	492	0	8,132	4	11	1,313	0	138
15	24,059	309	9,795	411	0	8,498	4	11	1,289	0	-95
16	24,009	-50	9,069	507	0	8,162	4	11	1,251	0	-198
17	24,801	792	9,062	503	0	7,490	4	11	1,259	0	-9
18	24,135	-666	1,458	399	0	1,118	4	11	1,347	0	-43
19	23,909	-226	2,971	444	0	2,186	5	11	1,259	0	-180
20	23,660	-249	3,466	65	0	2,372	5	11	1,263	0	-129
21	23,786	126	6,409	0	0	4,955	5	11	1,263	0	-49
22	23,576	-210	8,419	0	0	7,456	5	11	1,261	0	104
23	23,642	66	9,007	0	0	7,710	5	11	1,253	0	38
24	24,065	423	9,308	0	838	8,040	5	11	1,257	591	181
25	23,700	-365	4,611	0	0	3,652	5	11	1,257	0	-51
26	23,910	210	6,422	0	0	4,906	5	11	1,259	0	-31
27	24,081	171	6,312	0	0	4,818	5	11	1,265	0	-42
28	24,296	215	6,176	0	0	4,621	5	11	1,265	0	-59
29	23,769	-527	5,874	0	0	4,992	5	11	1,287	0	-106
30	23,866	97	5,096	0	0	3,889	5	11	1,265	0	171
Total		-334	239,357	9,100	838	210,779	132	324	38,213	591	410

1/ Sum of Thermalito Forebay and Diversion Pool.

2/ Sum of releases from Lake Oroville through Hyatt plant, and spill.

3/ Includes Bypass flows at Thermalito.

4/ Includes 3 AF of entitlement water to Del Oro WD and 129 AF to Cal Water.

5/ The sum of the flows from fish barrier dam and the fish hatchery.

Table 6. Thermalito Afterbay

Daily Operation

(in acre-feet except as noted)

Capacity: 57,040 ac-ft

September 2004

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow		Outflow					Losses (-) and Gains (+)	Total Releases to River 2/	
				Thermalito Pumping-Generating Plant Generation 1/	Sutter Butte Canal	Western Canal Lateral	Richvale Canal	Western Canal	Afterbay River Outlet	Thermalito Pumping-Generating Plant Pumpback			
Aug 31	131.66	37,890											
1	131.24	36,396	-1,494	9,804	1,930	4	202	452	8,710	0	0	9,961	
2	131.45	37,140	744	12,453	1,888	3	186	440	8,710	0	-482	9,969	
3	131.71	38,070	930	11,828	1,845	3	188	399	8,710	0	247	9,965	
4	132.14	39,631	1,561	12,637	1,692	3	186	357	8,710	0	-128	9,967	
5	132.05	39,302	-329	10,060	1,621	2	186	331	7,698	0	-551	8,949	
6	132.25	40,036	734	10,501	1,579	2	165	315	7,698	0	-8	8,955	
7	132.87	42,349	2,313	12,208	1,539	2	141	254	7,698	0	-261	8,955	
8	132.45	40,775	-1,574	6,611	1,521	1	137	230	6,189	0	-107	7,444	
9	132.92	42,538	1,763	8,782	1,424	1	135	222	4,741	0	-496	6,105	
10	132.97	42,728	190	6,790	1,394	2	135	186	4,760	0	-123	6,079	
11	131.68	37,962	-4,766	1,552	1,305	2	135	171	4,760	0	55	6,007	
12	131.10	35,905	-2,057	4,212	1,305	2	139	171	4,760	0	108	6,071	
13	132.19	39,815	3,910	10,344	1,289	1	103	175	4,760	0	-106	6,077	
14	132.56	41,185	1,370	8,132	1,254	0	69	175	4,741	0	-523	6,054	
15	133.17	43,490	2,305	8,498	1,236	0	63	149	4,741	0	-4	6,030	
16	133.67	45,424	1,934	8,162	1,208	0	75	137	4,760	0	-48	6,011	
17	133.94	46,484	1,060	7,490	1,156	0	34	196	4,701	0	-343	5,960	
18	132.90	42,463	-4,021	1,118	1,142	0	14	226	3,751	0	-6	5,098	
19	132.09	39,448	-3,015	2,186	1,142	0	14	233	3,751	0	-61	5,010	
20	131.28	36,538	-2,910	2,372	1,131	0	14	272	3,751	0	-114	5,014	
21	131.18	36,185	-353	4,955	1,156	0	40	292	3,751	0	-69	5,014	
22	131.71	38,070	1,885	7,456	1,142	0	50	296	3,751	0	-332	5,012	
23	132.29	40,183	2,113	7,710	1,035	0	81	294	3,751	0	-436	5,004	
24	132.82	42,160	1,977	8,040	1,005	0	99	294	3,751	838	-76	5,008	
25	132.37	40,479	-1,681	3,652	1,005	0	101	311	3,751	0	-165	5,008	
26	132.25	40,036	-443	4,906	1,010	0	99	355	3,749	0	-136	5,008	
27	132.13	39,595	-441	4,818	1,007	0	99	387	3,749	0	-17	5,014	
28	131.92	38,829	-766	4,621	1,006	0	218	393	3,749	0	-21	5,014	
29	131.77	38,286	-543	4,992	1,041	0	305	405	3,749	0	-35	5,036	
30	131.21	36,291	-1,995	3,889	1,022	0	347	452	3,749	0	-314	5,014	
Total		-1,599		210,779	39,030	28	3,760	8,570	155,600	838	-4,552	193,813	

1/ Includes Bypass flows at Thermalito.

2/ The sum of the flows from the fish barrier dam, fish hatchery, and afterbay river outlet.

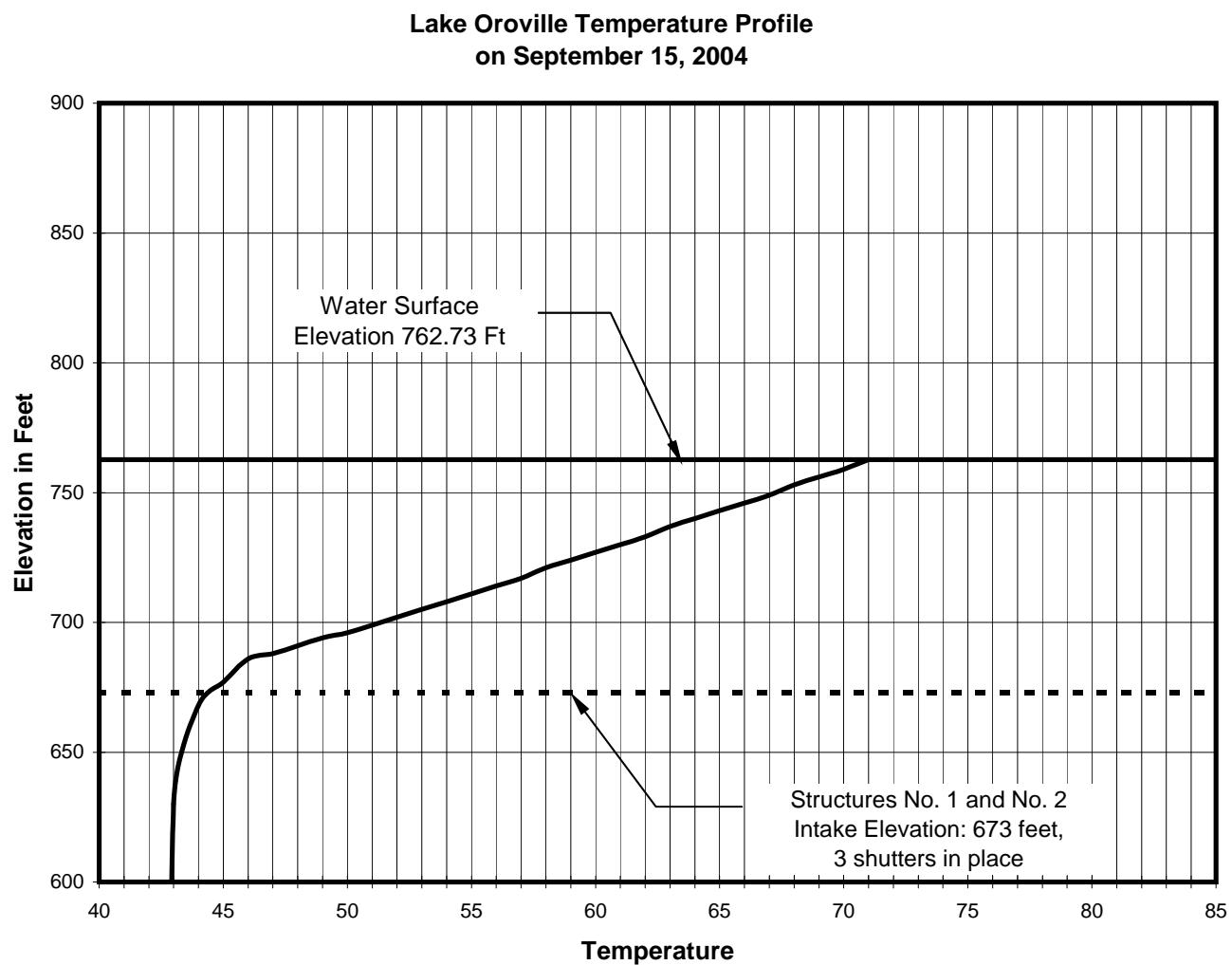
Table 7. Oroville-Thermalito Complex

Water Temperature Data

(in degrees Fahrenheit)

September 2004

Date	Mean Daily Temperature	
	Thermalito Afterbay Outlet	Fish Hatchery
1	63	56
2	63	56
3	63	55
4	63	56
5	63	55
6	63	52
7	63	50
8	63	51
9	62	51
10	62	51
11	62	51
12	61	51
13	62	52
14	64	52
15	62	51
16	62	51
17	61	52
18	60	52
19	59	52
20	60	52
21	59	52
22	60	51
23	61	52
24	62	52
25	61	53
26	61	53
27	61	53
28	60	53
29	61	53
30	61	54



Note: Water surface elevations on Table 4 are taken at Oroville Dam at midnight and may differ slightly from those shown on this table which are normally taken at mid-day and upstream from Oroville Dam.

Table 8. North Bay Aqueduct
Delta Field Division, Monthly Deliveries

(In acre-feet)

September 2004

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries					
	Beginning and Ending					Table A Amount			Settle-ment Water		
	No.	Structure	Mile			M & I	Benicia	Vallejo			
1	1	Barker Slough Pumping Plant	0.17	(Into the North Bay Aqueduct)	6,630	100	197	298	2,270		
		Travis Surge Tank	8.78								
			8.80	Solano County Water Agency Travis Turnout	297						
			10.54	Solano County Water Agency Fairfield / Vacaville 24"	298						
				Solano County Water Agency Fairfield / Vacaville 42"	2,270						
	2		17.00	Solano County Water Agency Central Solano	Stub	1/ 501	1,000	1,314	1,314		
	3A	Cordelia Forebay	21.23								
		Cordelia Pumping Plant & Cordelia Spillway	21.30		3,558						
		Napa Pipeline	21.33	Solano County Water Agency Vallejo	1,501						
				Solano County Water Agency Benicia	1,314						
	3B	Cordelia Surge Tank	23.33		0						
		Creston Surge Tank Connection	25.65			212	518	13	13		
			26.95	Napa County Flood Control & WCD American Canyon 2	212						
				Napa County Flood Control & WCD American Canyon 3	0						
		Napa Terminal Tank	27.58	City of Napa	518						
			27.60	Napa County Flood Control & WCD American Canyon 1	13						

1/ Includes 28 AF of Napa Co. FC&WCD Table A water through Solano Co.'s turnout for delivery to American Canyon.

Table 9. Delta Field Division Plant Data

(in acre-feet)

September 2004

Date	North Bay Aqueduct		California Aqueduct		South Bay Aqueduct			
	Barker Slough Pumping Plant	Cordelia Pumping Plant	Banks Pumping Plant		South Bay Pumping Plant	Del Valle Pumping Plant		
			Total	SWP		Into Lake	Into Aqueduct	Gravity Flow Through Plant Into Aqueduct
1	238	128	12,363	11,996	428	0	0	28
2	229	123	12,308	11,941	384	0	0	77
3	225	120	11,232	10,865	394	0	0	83
4	233	125	9,947	9,580	404	0	0	71
5	223	112	10,812	10,445	389	0	0	83
6	209	104	11,156	10,789	422	0	0	92
7	205	94	10,070	9,703	396	0	0	115
8	240	124	7,909	7,542	309	0	0	207
9	233	125	6,549	6,384	280	0	0	236
10	227	117	7,793	7,793	280	0	0	237
11	234	123	8,755	8,755	280	0	0	231
12	227	112	9,356	9,356	280	0	0	220
13	215	108	11,023	11,023	280	0	0	219
14	202	101	10,161	10,161	280	0	0	225
15	218	110	12,000	12,000	280	0	0	222
16	228	122	7,947	7,947	280	0	0	222
17	244	136	8,547	8,547	280	0	0	220
18	248	139	8,463	8,463	272	0	0	216
19	237	139	10,862	10,862	190	0	0	221
20	226	126	11,143	11,143	234	0	0	206
21	196	107	10,299	10,299	217	0	0	214
22	195	111	11,516	11,516	217	0	0	217
23	216	126	11,147	11,147	232	0	0	222
24	221	125	11,597	11,597	271	0	0	219
25	230	126	9,186	9,186	263	0	0	224
26	225	124	8,243	8,243	265	0	0	222
27	209	111	8,433	8,433	248	0	0	221
28	206	109	10,850	10,850	267	0	0	220
29	195	116	10,518	10,518	273	0	0	220
30	196	115	9,131	9,131	266	0	0	221
Total	6,630	3,558	299,316	296,215	8,861	0	0	5,631

Table 10. Clifton Court Forebay

Daily Operation of Gates

September 2004

Date	Time										Amount of inflow in Acre-Feet
	Opened	Closed									
1	---	9:15	10:45	14:45	17:45	22:00	23:45	---			12,609
2	---	10:15	11:45	15:15	18:15	22:45					12,127
3	0:15	4:00	7:00	11:00	12:30	23:00					12,400
4	0:45	4:35	8:25	12:15	13:45	---					10,069
5	---	0:01	1:15	6:00	9:00	13:45	15:15	---			11,753
6	---	0:30	2:00	7:00	10:00	15:30	17:00	---			11,343
7	---	1:15	2:45	8:00	11:40	17:00	18:30	---			10,488
8	---	2:15	3:45	7:44	13:13	17:45	19:15	---			7,721
9	---	3:15	4:45	6:15	14:10	18:30	20:00	21:43	22:46	---	6,188
10	---	4:15	5:45	7:20	14:20	19:00	20:30	---			6,800
11	---	5:15	6:45	8:05	14:55	19:15	20:45	22:30			8,981
12	0:15	6:00	7:30	9:15	15:20	19:45	21:15	23:15			9,302
13	0:05	6:45	8:15	10:15	15:30	20:00					9,902
14	0:01	1:00	2:00	7:30	9:00	11:30					9,913
15	0:01	8:15	9:45	12:15	16:30	18:50					9,887
16	0:01	9:00	10:30	14:00	17:00	19:55					9,904
17	0:01	2:45	5:45	9:45	11:15	21:45					9,898
18	0:01	3:30	6:30	10:45	12:15	22:30					9,939
19	0:01	2:11	7:15	11:45	13:15	15:00	16:00	23:00			10,743
20	0:30	4:35	8:40	13:15	15:00	---					10,900
21	---	0:01	1:30	5:30	10:00	15:00	16:30	---			11,159
22	---	1:15	2:45	5:30	11:27	16:15	17:45	---			10,457
23	---	2:15	4:10	6:50	12:00	17:15	18:45	---			10,447
24	---	3:30	5:00	7:20	13:00	18:00	19:30	---			11,166
25	---	4:45	6:15	8:25	15:22	18:30	20:00	---			9,186
26	---	5:45	7:15	9:15	15:00	19:00	20:45	22:41			8,214
27	0:01	6:45	8:15	10:15	15:30	19:45	21:15	23:00			9,661
28	2:34	7:30	10:05	11:40	16:00	20:15	21:45	23:25			9,902
29	0:01	1:20	4:30	8:30	10:00	12:00	15:10	20:13			8,908
30	0:01	2:00	5:00	9:15	10:45	14:10					7,932
Total inflow for the month in AF:											297,899

Table 11. Governor Edmund G. Brown California Aqueduct
 Delta Field Division, Monthly Deliveries

(In acre-feet)

September 2004

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending					Table A Amount	USBR	Local	Loan Water	Advanced Table A Water		
	No.	Structure	Mile									
1	Banks Pumping Plant	3.32			299,316	1	68	0	0	0		
	South Bay Pumping Plant	4.49	Bethany Reservoir Inlet		8,861							
	Check No. 1	5.95										
		8.08	Alameda Co. Zone 7 WA Mountain House Golf Course		1							
	Check No. 2	12.01										
		12.47	Musco Olive		68							
	Check No. 3	18.29										
		22.16	Tracy Golf & Country Club		0							
	Check No. 4	23.99										
	Check No. 5	29.73										
	Check No. 6	34.24										
2A		35.22	Turlock Fruit Company Inflow		0	102	25	42	111	106		
	Check No. 7	39.91										
		42.46	Oak Flat Water District-A		25							
		42.9	Western Hills WD		102							
		43.81	Oak Flat Water District-B		42							
		44.64	Oak Flat Water District-C		111							
	Check No. 8	45.97										
		46.18	Oak Flat Water District-D		106							
			Oak Flat Totals:		284		0	0	0	284		
	Check No. 9	51.3										
2B	Check No. 10	56.86										
	Check No. 11	61.4										
		66.14	Veteran's Cemetery		9		9					
	Check No. 12	66.71			314,503							

Table 12. South Bay Aqueduct
Delta Field Division, Monthly Deliveries

(In acre-feet)

September 2004

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries								
	Beginning and Ending					Table A Amount	Purchase Pool A	Transfer 1/	Local	Recreation				
	No.	Structure	Mile											
1	1	South Bay Pumping Plant	0.00	(into South Bay Aqueduct)	8,861	3	9	461	1,000					
			3.17			3	0							
			3.18			3								
	2	Check No. 1	3.91											
2	3		7.21	Zone 7 Altamont	9	461	1,000							
		Check No. 2	5.21	Zone 7 Patterson Inflow Exchange	0									
				Zone 7 Patterson Project Water	1,461									
4	4	Check No. 4	10.68			131	7	18	298	18				
	5	Check No. 5	12.29											
	6		13.55	Zone 7 Wente #1	131									
			14.16	Zone 7 Wente #2	7									
			14.31	Ising Project Water	18									
	7	Check No. 6	14.65											
	7		14.78	Zone 7 Arroyo Mocho Project Water	298									
		Check No. 7	16.38											
	8		16.63	Zone 7 Wente #4	61									
			16.69	Zone 7 Norman Nursery	5									
			16.70	Zone 7 Concannon Project Water	29									
5	Del Valle Branch Pipeline Junction		18.63	(Pumped into Lake Del Valle)	0	528	18	2,102	139	1,053				
				(Flow into South Bay Aqueduct)	5,631									
				Arroyo Valle #1 & #2 Project Water	528									
				Arroyo Valle #1 & #2 Inflow Exchange	0									
				Lake Del Valle Recreation	18									
				Zone 7 Wente #5	92									
			19.20	So. Livermore Project	2,102									
				So. Livermore Inflow Released	0									
				So. Livermore Stored Exchanged	0									
	7		19.21	Zone 7 - Kalthrof Detjens	139									
		La Costa Tunnel	22.50	ACWD Vallecitos Project Water	1,053									
			25.97	City of San Francisco San Antonio	0									
	8	Mission Tunnel	28.97	ACWD - Bayside 1 & 2 Project Water: Inflow Released	1,973	1,973	6,572							
	9	Santa Clara Pipeline	35.86	Inflow Exchange: Meter	0									

1/ Byron Bethany water transferred to Alameda Co. FCWCD, Zone 7.

Table 13. Lake Del Valle

Daily Operation

Capacity: 77,106 ac-ft

September 2004

(in acre-feet except as noted)

Date	Water Surface Elevation (feet)	Storage	Storage Change	Inflow		Outflow					Precipitation (inches)
				Natural 1/	From South Bay Aqueduct	Arroyo Valle	South Bay Aqueduct	Recreation Deliveries 2/	Evaporation	Total Outflow	
Aug 31	696.55	35,511									
1	696.49	35,472	-39	-1	0	0	28	0	10	38	0.00
2	696.39	35,406	-66	21	0	0	77	0	10	87	0.00
3	696.26	35,321	-85	9	0	0	83	0	11	94	0.00
4	696.15	35,248	-73	19	0	0	71	0	21	92	0.00
5	696.02	35,163	-85	13	0	0	83	0	15	98	0.00
6	695.89	35,078	-85	25	0	0	92	0	18	110	0.00
7	695.73	34,974	-104	30	0	0	115	0	19	134	0.00
8	695.39	34,754	-220	7	0	0	207	0	20	227	0.00
9	694.99	34,496	-258	-5	0	0	236	0	17	253	0.00
10	694.61	34,252	-244	8	0	0	237	0	15	252	0.00
11	694.24	34,015	-237	9	0	0	231	0	15	246	0.00
12	693.87	33,780	-235	-3	0	0	220	0	12	232	0.00
13	693.51	33,552	-228	-2	0	0	219	1	6	226	0.00
14	693.15	33,324	-228	15	0	0	225	1	17	243	0.00
15	692.78	33,092	-232	7	0	0	222	1	16	239	0.00
16	692.40	32,855	-237	1	0	0	222	1	15	238	0.00
17	692.04	32,631	-224	8	0	0	220	1	11	232	0.00
18	691.68	32,408	-223	5	0	0	216	1	11	228	0.00
19	691.35	32,204	-204	22	0	0	221	1	4	226	0.45
20	691.01	31,996	-208	3	0	0	206	1	4	211	0.00
21	690.66	31,782	-214	7	0	0	214	1	6	221	0.00
22	690.30	31,563	-219	13	0	0	217	1	14	232	0.00
23	689.92	31,333	-230	4	0	0	222	1	11	234	0.00
24	689.55	31,110	-223	9	0	0	219	1	12	232	0.00
25	689.17	30,883	-227	11	0	0	224	1	13	238	0.00
26	688.78	30,651	-232	3	0	0	222	1	12	235	0.00
27	688.39	30,420	-231	2	0	0	221	1	11	233	0.00
28	688.02	30,202	-218	14	0	0	220	1	11	232	0.00
29	687.64	29,979	-223	4	0	0	220	1	6	227	0.00
30	687.27	29,764	-215	13	0	0	221	1	6	228	0.00
Total			-5,747	271	0	0	5,631	18	369	6,018	0.45

1/ Total inflow from stream gaging station above Lang Canyon and accretions/depletions.

2/ To East Bay Regional Park District.

NR=No Records

Table 14. Consolidated State-Federal O'Neill Forebay

Daily Operations

September 2004

United States

Department of the Interior

Bureau of Reclamation

Central Valley Project

State of California

The Resources Agency

Department of Water Resources

State Water Project

Capacity 56,430 ac-ft

Date	Water Surface Elevation (in feet)	Storage (ac-ft)	Storage Change (ac-ft)	Inflow (cfs)				Outflow (cfs)				Computed Losses (-) Gains (+) (cfs)
				Pump In 1/	O'Neill Pumping Generating Plant (Pumped)	Gianelli Pumping Generating Plant (Generation)	California Aqueduct	O'Neill Pumping Generating Plant (Generation)	Gianelli Pumping Generating Plant (Pumped)	Dos Amigos Pumping Plant	Deliveries 2/	
Aug 31	222.90	50,779										
1	222.23	48,995	-1,784	0	2,040	0	5,916	0	4,791	4,630	15	581
2	221.38	46,758	-2,237	0	1,994	0	6,300	0	4,288	5,494	11	371
3	221.04	45,865	-893	0	2,010	0	5,788	0	3,415	5,027	11	205
4	219.18	41,042	-4,823	0	2,175	0	4,599	0	4,614	4,827	11	247
5	218.60	39,573	-1,469	0	2,458	0	5,817	0	4,013	5,261	11	269
6	219.61	42,145	2,572	0	2,633	0	5,806	0	2,688	4,503	11	60
7	220.60	44,714	2,569	0	2,457	87	5,366	0	2,608	4,219	11	223
8	220.82	45,289	575	0	2,271	0	4,935	0	2,755	4,395	15	249
9	220.79	45,210	-79	0	2,132	0	3,857	0	1,996	4,317	13	297
10	221.28	46,495	1,285	0	2,132	0	4,975	0	2,455	4,342	13	351
11	221.42	46,863	368	0	2,203	0	5,087	0	2,650	5,031	13	590
12	220.40	44,192	-2,671	0	2,273	0	4,839	0	4,862	3,761	13	177
13	222.13	48,730	4,538	0	1,952	0	4,870	0	718	4,240	13	437
14	222.63	50,060	1,330	0	1,910	0	4,898	0	2,447	3,841	13	164
15	222.49	49,687	-373	0	2,259	0	5,840	0	4,000	4,330	16	59
16	222.36	49,341	-346	0	2,307	0	5,169	0	3,701	4,222	11	284
17	221.88	48,071	-1,270	0	2,223	0	5,008	0	3,675	4,325	11	140
18	221.73	47,677	-394	0	2,074	0	4,829	0	2,822	4,519	11	250
19	219.64	42,222	-5,455	0	2,085	0	5,862	0	6,531	4,758	11	603
20	221.32	46,600	4,378	0	2,139	0	4,983	0	933	4,247	11	276
21	221.99	48,360	1,760	0	2,122	0	5,514	0	2,753	4,415	11	430
22	222.57	49,900	1,540	0	1,984	0	5,861	0	3,375	4,065	15	386
23	223.36	52,009	2,109	0	2,216	0	6,234	0	3,556	4,098	11	278
24	223.17	51,500	-509	0	2,080	0	6,129	0	4,342	4,335	11	222
25	222.66	50,139	-1,361	0	2,026	0	5,134	0	4,155	4,076	11	396
26	220.92	45,551	-4,588	0	2,016	0	4,970	0	5,898	3,890	11	500
27	221.19	46,259	708	0	2,032	0	4,774	0	3,194	3,549	11	305
28	220.68	44,923	-1,336	0	2,009	0	5,368	0	4,194	3,899	11	53
29	221.53	47,152	2,229	0	1,984	0	5,355	0	3,250	2,955	16	6
30	220.74	45,080	-2,072	0	1,882	0	4,473	0	3,364	4,009	17	-10
Total			-5,699	0	64,078	87	158,556	0	104,043	129,580	370	8,399
Mean cfs			---	0	2,136	3	5,285	0	3,468	4,319	12	280
Acre-feet			-5,699	0	127,098	172	314,503	0	206,366	257,020	733	16,647

1/ Pump-in located at Mile 79.67R.

2/ Includes 71 AF delivered to DFG at O'Neill Forebay, 14 AF to Parks and Recreation, 1 AF to P&R Cattle and 647 AF to SLWD.

Table 15. Consolidated State-Federal San Luis Reservoir

Daily Operations
September 2004

United States
Department of the Interior
Bureau of Reclamation
Central Valley Project

State of California
The Resources Agency
Department of Water Resources
State Water Project

Capacity: 2,027,835 ac-ft

Date	Water Surface Elev. (in feet)	Storage (ac-ft)	Storage Change (ac-ft)	Inflow (cfs)	Outflow (cfs)			Computed Losses (-) Gains (+) (cfs)
				Gianelli Pumping Generating Plant (Pumped)	Gianelli Pumping Generating Plant (Generation)	Pacheco Tunnel 1/	Parks and Rec. Del.	
Aug 31	396.89	498,397						
1	397.92	506,465	8,068	4,791	0	271	0	-452
2	398.83	513,633	7,168	4,288	0	229	0	-445
3	399.52	519,094	5,461	3,415	0	260	0	-402
4	400.51	526,965	7,871	4,614	0	261	0	-385
5	401.37	533,839	6,874	4,013	0	243	0	-304
6	401.89	538,011	4,172	2,688	0	261	0	-324
7	402.37	541,873	3,862	2,608	87	278	0	-296
8	402.90	546,149	4,276	2,755	0	272	0	-327
9	403.28	549,223	3,074	1,996	0	271	0	-175
10	403.73	552,871	3,648	2,455	0	274	0	-342
11	404.27	557,261	4,390	2,650	0	273	0	-164
12	405.26	565,343	8,082	4,862	0	248	0	-539
13	405.33	565,916	573	718	0	264	0	-165
14	405.81	569,851	3,935	2,447	0	251	0	-212
15	406.62	576,516	6,665	4,000	0	265	0	-375
16	407.37	582,712	6,196	3,701	0	270	0	-307
17	408.10	588,767	6,055	3,675	0	249	0	-373
18	408.62	593,094	4,327	2,822	0	248	0	-393
19	409.97	604,384	11,290	6,531	0	212	0	-627
20	410.12	605,643	1,259	933	0	153	0	-145
21	410.62	609,848	4,205	2,753	0	227	0	-406
22	411.28	615,415	5,567	3,375	0	270	0	-298
23	411.96	621,170	5,755	3,556	0	220	0	-435
24	412.83	628,563	7,393	4,342	0	229	0	-386
25	413.66	635,647	7,084	4,155	0	224	0	-360
26	414.81	645,510	9,863	5,898	0	203	0	-722
27	415.38	650,420	4,910	3,194	0	211	0	-508
28	416.36	658,894	8,474	4,194	0	203	0	281
29	417.03	664,711	5,817	3,250	0	160	0	-157
30	417.68	670,373	5,662	3,364	0	209	1	-299
Total			171,976	104,043	87	7,209	1	-10,042
Mean cfs			---	3,468	3	240	0	-335
Acre-feet			171,976	206,366	172	14,294	2	-19,922

1/ Pacheco Tunnel, San Felipe Split; Santa Clara: 12,186 AF, San Benito: 2,108 AF.

Table 16. San Luis Field Division Plant Data

(in acre-feet)

September 2004

Date	Dos Amigos Pumping Plant		Gianelli Pumping - Generating Plant				San Felipe Project
	Total Pumping	SWP Pumping 1/ 2/	Total Generation	SWP Generation 1/ 2/	Total Pumping	SWP Pumping 1/ 2/	Federal
1	9,183	8,135	0	0	9,502	6,264	537
2	10,897	9,850	0	0	8,506	5,353	454
3	9,972	8,933	0	0	6,774	3,640	516
4	9,575	8,553	0	0	9,152	6,081	517
5	10,435	8,820	0	0	7,959	2,502	481
6	8,931	7,335	0	0	5,331	-114	518
7	8,369	6,763	172	172	5,172	2,083	552
8	8,717	7,123	0	0	5,465	1,397	540
9	8,562	6,965	0	0	3,959	18	537
10	8,613	7,005	0	0	4,869	970	543
11	9,978	8,385	0	0	5,256	5,256	542
12	7,460	5,856	0	0	9,644	819	491
13	8,410	6,818	0	0	1,424	5	524
14	7,619	6,009	0	0	4,853	1,933	498
15	8,589	7,006	0	0	7,934	6,541	525
16	8,374	6,751	0	0	7,341	4,467	535
17	8,578	6,958	0	0	7,289	4,845	494
18	8,963	7,331	0	0	5,598	4,221	491
19	9,438	7,849	0	0	12,955	7,203	420
20	8,423	6,839	0	0	1,851	-14	303
21	8,757	7,171	0	0	5,460	2,622	451
22	8,063	6,409	0	0	6,694	4,117	536
23	8,128	6,447	0	0	7,053	4,485	436
24	8,598	6,959	0	0	8,613	6,029	455
25	8,084	6,468	0	0	8,241	6,076	445
26	7,716	6,101	0	0	11,699	5,530	402
27	7,040	5,469	0	0	6,336	3,908	418
28	7,734	6,144	0	0	8,318	6,169	402
29	5,862	4,289	0	0	6,446	4,619	317
30	7,952	6,368	0	0	6,672	4,809	414
Total	257,020	211,109	172	172	206,366	111,834	14,294

1/ Negative values may appear in SWP columns and indicate a mismatch of scheduled CVP energy and actual pumping; adjustments to SWP water shares are made to balance the mismatch.

2/ Provisional, subject to change.

Table 17. Consolidated State-Federal Los Banos Reservoir

Daily Operations
September 2004

United States

Department of the Interior

Bureau of Reclamation

Central Valley Project

State of California

The Resources Agency

Department of Water Resources

State Water Project

Capacity 34,560 ac-ft

Date	Water Surface Elev. (in feet)	Storage (ac-ft)	Storage Change (ac-ft)	Estimated Inflow (cfs)	Estimated Outflow (cfs)		Computed Losses (-) Gains (+) (ac-ft)
					Spill	Outlet	
Aug 31	324.32	18,977					
1	324.31	18,972	-5	0	0	0	-5
2	324.28	18,959	-13	0	0	0	-13
3	324.23	18,936	-23	0	0	0	-23
4	324.21	18,927	-9	0	0	0	-9
5	324.19	18,918	-9	0	0	0	-9
6	324.17	18,910	-8	0	0	0	-8
7	324.15	18,901	-9	0	0	0	-9
8	324.14	18,896	-5	0	0	0	-5
9	324.10	18,878	-18	0	0	0	-18
10	324.08	18,869	-9	0	0	0	-9
11	324.07	18,865	-4	0	0	0	-4
12	324.02	18,842	-23	0	0	0	-23
13	323.99	18,829	-13	0	0	0	-13
14	323.97	18,820	-9	0	0	0	-9
15	323.95	18,811	-9	0	0	0	-9
16	323.94	18,807	-4	0	0	0	-4
17	323.90	18,789	-18	0	0	0	-18
18	323.87	18,775	-14	0	0	0	-14
19	323.83	18,757	-18	0	0	0	-18
20	323.81	18,748	-9	0	0	0	-9
21	323.80	18,744	-4	0	0	0	-4
22	323.79	18,740	-4	0	0	0	-4
23	323.78	18,735	-5	0	0	0	-5
24	323.77	18,731	-4	0	0	0	-4
25	323.75	18,722	-9	0	0	0	-9
26	323.74	18,717	-5	0	0	0	-5
27	323.71	18,704	-13	0	0	0	-13
28	323.68	18,690	-14	0	0	0	-14
29	323.67	18,686	-4	0	0	0	-4
30	323.64	18,673	-13	0	0	0	-13
Total			-304	0	0	0	-304
Mean cfs			---	0	0	0	---
Acre-feet			-304	0	0	0	-304

Table 18. Consolidated State-Federal Little Panoche Reservoir

Daily Operations

September 2004

United States

Department of the Interior

Bureau of Reclamation

Central Valley Project

State of California

The Resources Agency

Department of Water Resources

State Water Project

Capacity: 5,580 ac-ft

Date	Water Surface Elev. (in feet)	Storage (ac-ft) 1/	Storage Change (ac-ft) 1/	Estimated Inflow (cfs)	Estimated Outflow (cfs)		Computed Losses (-) Gains (+) (ac-ft) 1/
					Spill	Outlet	
Aug 31	559.60	664					
1	559.55	664	0	0	0	0	0
2	559.55	661	-3	0	0	0	-3
3	559.55	661	0	0	0	0	0
4	559.55	661	0	0	0	0	0
5	559.50	659	-2	0	0	0	-2
6	559.50	659	0	0	0	0	0
7	559.45	656	-3	0	0	0	-3
8	559.45	656	0	0	0	0	0
9	559.40	654	-2	0	0	0	-2
10	559.40	654	0	0	0	0	0
11	559.40	654	0	0	0	0	0
12	559.35	654	0	0	0	0	0
13	559.35	651	-3	0	0	0	-3
14	559.35	651	0	0	0	0	0
15	559.30	649	-2	0	0	0	-2
16	559.25	647	-2	0	0	0	-2
17	559.25	647	0	0	0	0	0
18	559.25	647	0	0	0	0	0
19	559.20	644	-3	0	0	0	-3
20	559.20	644	0	0	0	0	0
21	559.20	644	0	0	0	0	0
22	559.20	644	0	0	0	0	0
23	559.20	644	0	0	0	0	0
24	559.15	642	-2	0	0	0	-2
25	559.10	639	-3	0	0	0	-3
26	559.01	635	-4	0	0	0	-4
27	559.01	635	0	0	0	0	0
28	559.01	635	0	0	0	0	0
29	559.10	639	4	2	0	0	0
30	559.10	639	0	0	0	0	0
Total			-25	2	0	0	-29
Mean cfs			---	0	0	0	---
Acre-feet			-25	4	0	0	-29

Table 19a. Governor Edmund G. Brown California Aqueduct
 San Luis Field Division, Monthly Deliveries

(In acre-feet)

Reach No.	Operating Pool			Turnout	Total Diversions	September 2004					
	Beginning and Ending					Deliveries					
	No.	Structure	Mile			USBR	Transfer 1/	DWR Recreation	USBR Recreation		
2B	12	Check No. 12	66.71		314,503						
3A		San Luis Reservoir		Department of Parks and Recreation	2	12,186	1	1	1		
				San Felipe Division Santa Clara Water District	12,186						
				San Felipe Division San Benito Water District	2,108						
3	13	O'Neill Forebay	70.85	Department of Parks and Recreation	14		8	6	6		
				Cattle Program	1		1	0			
				Department of Fish & Game	71						
		70.91 Thru 85.08		San Luis Water District	647	647	0	39	32		
				(Floodwater Inflow)	0						
				Reach 3 Subtotal:	733						
		Dos Amigos Pumping Plant	86.73		257,020						
4	14		89.03			2,911					
			Thru 94.06	San Luis Water District	2,911						
			89.66				732				
			Thru 89.67	Pacheco Water District	732						
			89.68	Panoche Water District	40		40				
			89.70	City of Dos Palos	157						
		Check No. 14	95.06								
4	15		98.15			185					
			Thru 104.20	San Luis Water District	185						
			96.15				792				
			Thru 102.64	Panoche Water District	792						
			102.64	(Floodwater Inflow)	0						
			102.64	Broadview Water District	3		3				
			105.22	Westlands Water District	4,541						
		Check No.15	108.50								
			San Felipe Division Total:	14,294	14,294	0	0	0	0		
			Pacheco Water District Total:	732	732	0	0	0	0		
			Broadview Water District Total:	3	3	0	0	0	0		
			City of Dos Palos Total:	157	157	0	0	0	0		
			SLWD Reach 4 Subtotal:	3,743	3,743	0	0	0	0		
			Panoche Water District Total:	832	832	0	0	0	0		
			SLWD Total:	3,743	3,743	0	0	0	0		
			Westlands WD Reach 4 Subtotal:	4,541	4,541	0	0	0	0		

Table 19b. Governor Edmund G. Brown California Aqueduct

San Luis Field Division, Monthly Deliveries (Continued)

(In acre-feet)

September 2004

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries							
	Beginning and Ending					USBR	Transfer	DWR Recreation	USBR Recreation				
	No.	Structure	Mile										
5	16		110.52	(Reverse flow, Kings River)	0	7,619							
			Thru	Westlands Water District	7,619								
			122.05	Department of Fish and Game	0								
		Check No. 16	122.07										
	17		124.18	Westlands Water District	2,318	2,318							
			132.74										
		Check No. 17	132.95										
	18		133.81	Westlands Water District	4,916	4,916							
			142.61										
		Pleasant Valley Pumping Plant	143.16	Westlands Water District	6,645								
			143.16	City of Coalinga	826								
		Check No. 18	143.23										
6				Westlands WD Reach 5 Subtotal:	21,498	21,498	0	0	0				
	19		145.26	Westlands Water District	4,502	4,502	1/ 344						
			Thru	Westlands Water District Lemoore Naval Air Station	344								
			151.19										
		Check No. 19	155.64										
				Westlands WD Reach 6 Subtotal:	4,502	4,502	0	0	0				
7	20		156.34	City of Huron	101	101	2/ 23 2/ 15						
			156.40	SWP Construction @ Lat. 23R	23								
			Thru	SWP Construction @ Lat. 24R	15								
			163.69	Westlands Water District	2,174								
		Check No. 20	164.69										
	21		164.79	City of Avenal	277	277	1,514						
			167.04	Westlands Water District	1,514								
			171.67										
		Check No. 21	172.40		214,312								
				Reach 7 Total:	4,104	4,066	38	0	0				
				SWP Construction	38	0	38						
				Westlands WD Total:	34,229	34,229	0	0	0				
				City of Coalinga Total:	826	826	0	0	0				
				Kings County to Lemoore N.A.S. through Westlands @29L & 30L	344	0	344	0	0				
				City of Huron Total:	103	103	0	0	0				
				City of Avenal Total:	277	277	0	0	0				
				Total San Luis Field Division Deliveries:	55,666	55,196	382	49	39				

1/ Westlands Water District transferred 344 AF from County of Kings to Lemoore N.A.S.

2/ SWP water pumped at Banks and delivered through WWD turnout for construction at Arroyo Pasajero.

Table 20. Consolidated State-Federal San Luis Canal 1/

Daily Operations
September 2004

United States
Department of the Interior
Bureau of Reclamation
Central Valley Project

State of California
The Resources Agency
Department of Water Resources
State Water Project

Date	Storage In Canal (ac-ft)	Storage Change (ac-ft)	Inflow (cfs)		Outflow (cfs)				Computed Losses (-) Gains (+) (cfs)
			Non- Project	Dos Amigos Pumping Plant	San Luis Water District 2/	Panoche Water District	Westlands Water District 3/	Flow Past Check 21	
Aug 31	29,165								
1	28,923	-242	0	4,630	120	20	793	3,889	69.99
2	29,594	671	0	5,494	65	12	635	4,214	-229.71
3	29,780	186	0	5,027	65	12	635	4,056	-165.23
4	28,621	-1,159	0	4,827	65	12	635	4,768	68.68
5	29,080	459	0	5,261	65	12	635	4,289	-28.59
6	29,104	24	0	4,503	65	12	635	3,802	23.10
7	29,014	-90	0	4,219	65	12	635	3,607	54.63
8	29,087	73	0	4,395	67	17	635	3,649	9.80
9	29,078	-9	0	4,317	65	11	611	3,544	-90.54
10	29,121	43	0	4,342	65	11	611	3,545	-88.32
11	29,104	-17	0	5,031	65	11	611	4,333	-19.57
12	29,502	398	0	3,761	65	11	611	3,011	137.66
13	29,312	-190	0	4,240	65	11	611	3,835	186.21
14	29,362	50	0	3,841	65	11	611	3,130	1.21
15	29,580	218	0	4,330	68	12	615	3,634	108.91
16	29,273	-307	0	4,222	56	19	561	3,789	48.22
17	29,517	244	0	4,325	56	19	561	3,628	62.01
18	29,264	-253	0	4,519	56	19	561	4,001	-9.55
19	28,801	-463	0	4,758	56	19	561	4,350	-5.43
20	28,671	-130	0	4,247	56	19	561	3,444	-232.54
21	29,285	614	0	4,415	56	19	561	2,886	-583.45
22	29,208	-77	0	4,065	59	22	566	3,343	-113.82
23	29,197	-11	0	4,098	57	10	508	3,419	-109.55
24	29,546	349	0	4,335	57	10	508	3,556	-28.45
25	29,105	-441	0	4,076	57	10	508	3,805	81.67
26	29,184	79	0	3,890	57	10	508	3,345	69.83
27	29,161	-23	0	3,549	57	10	508	3,031	45.40
28	29,263	102	0	3,899	58	10	508	2,763	-508.58
29	28,202	-1,061	0	2,955	58	10	512	2,500	-409.91
30	27,676	-526	0	4,009	178	26	1,048	2,880	-141.74
Total		-1,489	0	129,580	2,009	419	18,059	108,046	-1,798
Mean cfs		---	0	4,319	67	14	602	3,602	-60
Acre-feet		-1,489	0	257,020	3,985	832	35,820	214,312	-3,560

1/ San Luis Canal includes Pools 14 through 21 of the California Aqueduct.

2/ Includes 731 AF AG & 1 AF M&I to Pacheco W.D., 157 AF to the City of Dos Palos, and 3,096 AF to SLWD.

3/ Includes 101 AF to the City of Huron, 2 AF to City of Huron @ 22R, 277 AF to the City of Avenal, 826 AF to the City of Coalinga, 344 AF to Lemoore N.A.S. @ 30L, 3 AF to Broadview W.D., 38 AF to SWP construction, and 34,229 AF to Westlands WD.

Table 21. San Joaquin Field Division Plant Data

(in acre-feet)

September 2004

23

Date	Coastal Aqueduct					California Aqueduct			
	Las Perillas Pumping Plant	Badger Hill Pumping Plant	Devil's Den Pumping Plant	Bluestone Pumping Plant	Polonio Pass Pumping Plant	Buena Vista Pumping Plant	Teerink Pumping Plant	Chrisman Pumping Plant	Edmonston Pumping Plant
1	393	393	128	116	127	6,563	6,571	6,211	6,128
2	326	326	101	91	94	6,998	6,901	6,519	6,500
3	296	296	155	141	141	6,856	6,963	6,587	6,526
4	409	409	136	126	128	8,118	8,551	8,093	8,111
5	367	367	163	150	158	7,875	8,421	8,093	8,085
6	356	356	129	117	126	6,646	7,192	6,774	6,791
7	317	317	108	96	101	6,074	6,348	5,962	5,846
8	348	348	139	132	133	6,854	6,550	5,876	6,149
9	349	349	135	127	128	6,592	6,702	6,356	6,395
10	241	241	138	129	131	6,529	6,728	6,381	6,393
11	305	305	132	124	126	7,517	7,755	7,417	7,390
12	324	324	153	139	149	5,967	6,359	5,998	6,051
13	239	239	113	105	108	7,157	7,078	6,697	6,570
14	295	295	155	137	147	6,007	6,257	5,904	5,981
15	328	328	124	116	118	6,878	6,649	6,341	6,183
16	355	355	138	131	131	6,563	6,671	6,419	6,342
17	359	359	152	144	144	6,393	6,364	6,046	6,045
18	383	383	171	164	162	7,304	7,813	7,524	7,549
19	363	363	154	140	147	7,901	8,247	7,991	8,084
20	293	293	104	96	102	6,640	6,799	6,460	6,340
21	294	294	125	117	122	6,436	6,613	6,253	6,271
22	376	376	134	126	130	6,408	6,551	6,300	6,151
23	448	448	145	135	139	6,569	6,800	6,465	6,415
24	362	362	146	140	142	6,477	6,795	6,515	6,538
25	390	390	145	135	137	7,271	7,570	7,400	7,332
26	386	386	158	148	154	6,504	6,672	6,665	6,665
27	272	272	110	101	110	5,787	6,172	5,815	5,808
28	287	287	126	116	122	6,014	6,014	5,761	5,636
29	337	337	132	123	126	5,104	5,477	5,372	5,289
30	327	327	135	123	126	6,394	6,397	5,965	6,040
Total	10,125	10,125	4,084	3,785	3,909	200,396	205,980	196,160	195,604

Table 22a. Governor Edmund G. Brown California Aqueduct

San Joaquin Field Division, Monthly Deliveries

(In acre-feet)

September 2004

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries								
	Beginning and Ending					Table A Amount	USBR	Purchase Pool A	Kern WB Recovery	Pump In Recovery				
	No.	Structure	Mile											
7	21	Check No. 21	172.40		214,312									
8C	22				Empire West Side Irrig. Dist. TL - A	0								
					County of Kings TL - A	0								
					TLBWSD TL-A	1,603								
					175.18 DRWD - 1	625			625					
					177.54 DRWD - 1B	98			98					
					180.64 TLBWSD - C	0			207					
					180.65 DRWD - 1A	207			2,248					
					182.99 DRWD - 2	2,943			3					
					183.00 Tulare Lake Basin WSD TL - B	305			669					
					184.00 DRWD - Paramount	3			1,345	0				
31A	8D				184.63 Coastal Branch	10,125			0	3,850				
8D					184.78 Dudley Ridge Water Dist. DRWD - 3	1,319			1,908	0				
					Dudley Ridge Reach 8D Total:	5,195			0	0				
					Tulare Lake Basin WSD Total:	1,908								
					Check No. 22	184.82								
					189.69 Kern County Water Agency Lost Hills Water Dist. - 1	3,254				3,254				
					191.18 Kern County Water Agency Lost Hills Water Dist. - 2	797				797				
					194.22 Kern County Water Agency Lost Hills Water Dist. - 3	122				122				
					196.40 Kern County Water Agency Berrenda Mesa - 2	0								
					196.75 Kern County Water Agency Lost Hills Water Dist. - 4	0								
					K.C.W.A. Reach 9 Subtotal:	4,173								
9	23				Check No. 23	197.05			0	4,173				
					201.24 Kern County Water Agency Lost Hills Water Dist. - 7	187				185				
					202.05 Kern County Water Agency Lost Hills Water Dist. - 5	724				724				
					204.69 Kern County Water Agency Lost Hills Water Dist. - 6	0								
					205.26 Kern County Water Agency Lost Hills Water Dist. - 8	11								
					Check No. 24	207.94								
					209.71 Kern County Water Agency Belridge Water Storage Dist. - 1A	1,555				1,555				
					209.78 Kern National Wildlife Refuge USBR BV-1B	3,177								
						0								
					209.80 KCWA Semitropic WSD	63				63				
10A	25				KCWA Semitropic WSD Penstocks	0								
					USBR Total:	3,177			0	0				
						3,177			0	0				
					K.C.W.A. Reach 10A Subtotal:	2,540			13	2,527				

Table 22b. Governor Edmund G. Brown California Aqueduct

San Joaquin Field Division, Monthly Deliveries (Continued)

(In acre-feet)

September 2004

Reach No.	Operating Pool			Turnout	Total Diver-sions	Deliveries						
	Beginning and Ending					Table A Amount	USBR	Purchase Pool A	Kern WB Recovery	Pump In Recovery		
	No.	Structure	Mile									
11B	25	210.75 214.11 216.62 217.13	Kern County Water Agency Belridge - 2	0	274	104			274	7,697		
			Kern County Water Agency Belridge - 3	274								
			Kern County Water Agency Belridge - 4	0								
			Kern County Water Agency Belridge - 5	7,697								
			Kern County Water Agency Belridge - 5D	104								
		Check No. 25	217.79									
			K.C.W.A. Reach 11B Subtotal:	8,075		104	0	0	0	7,971		
12D	26	219.58	Kern County Water Agency Belridge - 6	0	446	446						
			Kern County Water Agency West Kern - 3	446								
		Check No. 26	224.92									
12E	27	230.37 Check No. 27	Kern County Water Agency Buena Vista - 6	0	255	255			320			
			Kern County Water Agency Buena Vista - 2	0								
	28	235.75 238.04	Kern County WA CVC	575								
			DRWD CVC	0								
			Tulare Co.	0								
			Lower Tule River	0								
			Fresno Co.	0								
			Pixley ID	0								
			Hacienda									
			DWR Wells	0								
	Check No. 28	238.11										
			1/ Arvin Edison Total:	0	255	0	0	0	0	0		
			Reach 12E Subtotal:	575		255	0	0	0	320		
13B	29	238.19 241.02 242.85 243.09	Kern Water Bank Inflow	0	258	258			258			
			Kern Water Bank Outflow	0								
			Kern River Intertie (inflow)	0								
			KCWA Buena Vista WSD - 7	0								
			KCWA Buena Vista WSD - 5	0								
			Kern County Water Agency Buena Vista - 3	258								
		Check No. 29	244.54	Buena Vista WSD								
	30	249.85	Kern County Water Agency Buena Vista - 4	0								
			Buena Vista Pumping Plant	250.99		200,396						
			K.C.W.A. Reach 13B Subtotal:	258		0	0	0	0	258		
14A	31	254.47	Kern County Water Agency West Kern - 2	0	5	5						
		256.11	Kern County Water Agency Wheeler Ridge-Maricopa - 2	5								

1/ Arvin Edison Contractors include Rag Gulch WD, Kern-Tulare WD, Fresno County, Hills Valley ID, Tri Valley WD, Tulare County, Lower Tule River ID, and Pixley ID.

Table 22c. Governor Edmund G. Brown California Aqueduct
San Joaquin Field Division, Monthly Deliveries (Continued)

(In acre-feet)

September 2004

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending		Mile			Table A Amount	USBR	Purchase Pool A	Kern WB Recovery	Pump In Recovery		
	No.	Structure										
14A	31	Check No. 31	256.14									
	32		258.61	Kern County Water Agency Wheeler Ridge-Maricopa - 3	168							
			260.44	Kern County Water Agency Wheeler Ridge-Maricopa - 4	736							
		Check No. 32	261.72									
				KCWA Reach 14A Subtotal:	909	909	0	0	0	0		
14B	33		264.42	Kern County Water Agency Wheeler Ridge-Maricopa - 5	1,863							
			266.91	Kern County Water Agency Wheeler Ridge-Maricopa - 6	775							
	Check No. 33	267.36										
	34		270.24	Kern County Water Agency Wheeler Ridge-Maricopa - 7	1,448							
		Check No. 34	271.27									
				Reach 14B Total:	4,086	4,086	0	0	0	0		
14C	35		272.39	Kern County Water Agency Wheeler Ridge-Maricopa - 8	889							
			276.09	Kern County Water Agency Wheeler Ridge-Maricopa - 9	326							
				Reach 14C Total:	1,215	1,215	0	0	0	0		
15A	36	Teerink Pumping Plant	278.13		205,980							
			279.02	Kern County Water Agency Wheeler Ridge-Maricopa - 9A	689							
			280.06	Kern County Water Agency Wheeler Ridge-Maricopa - 10	3,154							
				Reach 15-A Total:	3,843	3,843	0	0	0	0		
16A	37	Chrisman Pumping Plant	280.36		196,160							
			282.06	Kern County Water Agency Wheeler Ridge-Maricopa - 11	0							
		Check No. 37	283.95									
	38		285.01	Kern County Water Agency Wheeler Ridge-Maricopa - 12	25							
			286.39	Kern County Water Agency Wheeler Ridge-Maricopa - 13A	42							
			287.06	Kern County Water Agency Wheeler Ridge-Maricopa - 13	0							
	Check No. 38	287.09										
	39		287.62	Kern County Water Agency Wheeler Ridge-Maricopa - 13B	148							
		Check No. 39	290.21									
	40		291.26	Kern County Water Agency Wheeler Ridge-Maricopa - 14	885							
			293.07	Kern County Water Agency Wheeler Ridge-Maricopa - 15	132							
				Kern County Water Agency Tehachapi Cummings CWD	795							
				K.C.W.A. Reach 16A Subtotal:	2,027	2,027	0	0	0	0		
17E	Edmonston Pumping Plant	293.45			195,604							

Table 23. Governor Edmund G. Brown California Aqueduct

San Joaquin Field Division, Monthly Deliveries (Coastal Branch)

September 2004

(In acre-feet)

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending					Table A Amount	USBR	Purchase Pool A	Kern WB Recovery	Pump In Recovery		
	No.	Structure	Mile									
31A	C-1	Coastal Branch Control	0.02	Green Valley Water District	10,125	591	5,701	0	0	0		
		Las Perillas Pumping Plant	1.16		10,125							
	C-2		3.79		0							
		Badger Hill Pumping Plant	4.27		10,125							
	C-3	Coastal Check No. 3	7.21									
	C-4		9.34		Castaic Lake WA (Devil's Den WD #1)							
		Coastal Check No. 4	9.34									
	C-5	Coastal Check No. 5	12.20									
	C-6		13.30	Kern County Water Agency Berrenda Mesa - 3	591							
			14.83	Kern County Water Agency Berrenda Mesa - 1	5,701							
				Kern County Water Agency Berrenda Mesa - PO	0							
		Devil's Den Pumping Plant	14.86		4,084							
				K.C.W.A. Reach 31A Subtotal:	6,292	6,292	0	0	0	0		
				K.C.W.A. Total:	34,439	19,190	0	0	0	15,249		
33A	C-7	Bluestone Pumping Plant	19.05		3,785	3,377	394	0	0	0		
	C-8	Polonio Pass Pumping Plant	26.54		3,909							
	C-9	Tank Site 1	27.81	(CCWA) Polonio Pass Treatment Plant								
	C-10	Shandon T.O.	38.23	Santa Barbara County (CCWA)	3,377							
		Tank Site 2	58.63	Central Coast:	0							
34	C-11	Chorro Valley T.O.	69.31	San Luis Obispo County (CCWA)	394	3,771	0	0	0	0		
		Energy Dissipater	78.12									
		Lopez T.O.	85.86	SLOCFC & WCD	0							
35	C-12			CCWA Total:	3,771		0	0	0	0		
		Guadalupe T.O.	102.70	SBCFC & WCD	0							
		Santa Maria T.O.	107.43	SBCFC & WCD	0							
		So. Cal. Water T.O.	109.20	SBCFC & WCD	0							
38				SBCFC & WCD Total:	0		0	0	0	0		
		Tank Site 5	115.42									

Table 24. Southern Field Division Plant Data

(in acre-feet)

September 2004

Date	West Branch					East Branch											
	Oso Pumping Plant	Warne Powerplant		Castaic Powerplant		Alamo Powerplant			Pearblossom Pumping Plant	Mojave Siphon Powerplant			Devil Canyon Powerplant Generation	Cherry Valley	Green Spot	Crafton Hills	
		Generation	Bypass	Generation 1/	Pumpback 1/	Generation	Bypass Through Plant	Cottonwood Chute		Generation	Leakage	Bypass Flume					
28	1	2,736	2,927	0	9,105	2,876	3,095	0	205	2,900	2,530	0	0	3,120	4	10	8
	2	3,336	3,283	0	7,493	3,669	3,122	0	83	2,746	3,226	0	0	2,974	4	11	11
	3	3,145	3,187	0	9,060	2,523	3,061	0	262	3,216	3,095	0	0	3,082	0	14	6
	4	4,115	3,124	0	4,226	4,132	3,581	0	337	3,397	3,224	0	0	2,962	0	0	0
	5	3,735	2,957	0	2,540	3,845	3,634	0	698	3,712	3,805	0	0	3,096	0	0	0
	6	2,913	3,152	0	5,093	3,945	3,380	0	418	3,273	3,429	0	0	2,939	0	0	0
	7	3,145	3,035	0	7,048	2,368	2,321	0	335	2,375	2,303	0	0	3,259	4	21	10
	8	2,606	3,150	0	6,752	1,436	3,087	0	382	3,109	3,250	0	0	3,208	4	18	11
	9	2,861	3,172	0	6,876	2,066	3,243	0	266	3,116	3,248	0	0	3,270	4	31	21
	10	2,721	3,068	0	7,438	1,870	3,395	0	277	2,991	2,930	0	0	3,222	2	35	25
	11	3,252	3,251	0	2,699	817	3,573	0	504	3,551	3,523	0	0	3,029	0	10	0
	12	3,372	3,213	0	2,443	4,187	2,438	0	234	2,710	2,699	0	0	3,188	0	12	0
	13	2,890	2,975	0	5,652	2,502	3,307	0	277	3,154	3,267	0	0	3,357	3	29	15
	14	2,897	3,194	0	5,704	1,101	2,880	0	256	2,747	2,802	0	0	3,054	3	28	15
	15	3,178	3,176	0	6,359	3,086	2,582	0	370	2,340	2,278	0	0	3,170	0	22	11
	16	2,750	3,211	0	6,019	1,433	3,321	0	246	3,288	3,283	0	0	3,285	4	25	14
	17	2,722	3,082	0	8,085	1,788	3,109	0	231	2,631	2,788	0	0	3,006	0	26	15
	18	3,767	3,228	0	2,430	2,139	3,332	0	457	3,261	3,294	0	0	3,274	0	18	10
	19	3,896	2,750	0	1,373	4,859	3,413	0	689	3,620	3,695	0	0	3,118	0	9	4
	20	2,619	2,696	0	4,800	2,486	3,364	0	308	3,248	3,323	0	0	3,221	9	24	13
	21	2,559	2,669	0	7,245	2,271	3,476	0	183	3,290	3,301	0	0	3,334	0	23	13
	22	2,642	2,885	0	7,457	2,174	3,146	0	340	3,107	3,026	0	0	3,237	0	23	13
	23	2,600	2,664	0	8,710	3,662	3,444	0	269	3,466	3,584	0	0	3,278	0	23	17
	24	2,985	2,614	0	8,957	3,030	3,014	0	539	3,333	3,172	0	0	3,255	4	24	19
	25	3,411	2,587	0	1,850	2,639	3,435	0	392	3,550	3,942	0	0	3,219	0	13	0
	26	2,720	2,471	0	1,605	5,305	3,410	0	455	3,365	3,217	0	0	3,261	0	13	0
	27	2,245	2,945	0	6,100	3,506	3,166	0	390	3,166	3,345	0	0	3,325	4	23	16
	28	1,865	1,910	0	6,417	2,937	3,438	0	321	3,543	3,462	0	0	3,282	4	23	16
	29	1,897	2,118	0	6,760	2,920	3,169	0	204	2,936	3,213	0	0	2,966	4	22	17
	30	1,989	2,126	0	6,319	3,181	3,529	0	379	3,221	3,618	0	0	3,645	4	23	18
Total		87,569	86,820	0	172,615	84,753	96,465	0	10,307	94,362	95,872	0	0	95,636	61	553	318

1/ Values supplied by LADWP, not verified by DWR.

Table 25. Pyramid Lake

Daily Operation

Capacity: 171,200 ac-ft

September 2004

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow			Outflow				Computed Losses (-) And Gains (+)	
				Project		Natural	Project		Natural	United Water Agency		
				Castaic Powerplant Pumpback 1/	Warne Powerplant	Stream Flow	Castaic Powerplant Generation 1/	Recreation Deliveries	To Piru Creek			
Aug 31	2574.79	165,790										
1	2571.90	162,145	-3,645	2,876	2,927	2	9,105	0	0	49	-296.10	
2	2571.37	161,483	-662	3,669	3,283	2	7,493	0	0	49	-74.10	
3	2568.52	157,950	-3,533	2,523	3,187	2	9,060	0	0	47	-138.20	
4	2570.86	160,847	2,897	4,132	3,124	2	4,226	0	0	47	-88.20	
5	2574.18	165,016	4,169	3,845	2,957	2	2,540	0	0	45	-50.10	
6	2575.61	166,834	1,818	3,945	3,152	2	5,093	0	0	45	-143.00	
7	2574.20	165,042	-1,792	2,368	3,035	2	7,048	0	0	43	-106.00	
8	2572.42	162,797	-2,245	1,436	3,150	2	6,752	0	0	43	-38.00	
9	2571.03	161,059	-1,738	2,066	3,172	2	6,876	0	0	41	-61.10	
10	2569.00	158,541	-2,518	1,870	3,068	2	7,438	0	0	41	21.00	
11	2570.03	159,815	1,274	817	3,251	2	2,699	0	0	39	-58.00	
12	2573.96	164,738	4,923	4,187	3,213	2	2,443	0	0	39	2.80	
13	2573.65	164,346	-392	2,502	2,975	2	5,652	0	0	37	-182.10	
14	2572.52	162,923	-1,423	1,101	3,194	2	5,704	0	0	37	20.80	
15	2572.21	162,534	-389	3,086	3,176	2	6,359	0	0	35	-259.00	
16	2571.05	161,083	-1,451	1,433	3,211	2	6,019	0	0	35	-43.00	
17	2568.32	157,704	-3,379	1,788	3,082	2	8,085	0	0	33	-133.00	
18	2570.59	160,511	2,807	2,139	3,228	2	2,430	0	0	33	-99.00	
19	2575.40	166,566	6,055	4,859	2,750	3	1,373	0	0	31	-152.50	
20	2575.61	166,834	268	2,486	2,696	3	4,800	0	0	31	-85.50	
21	2573.67	164,371	-2,463	2,271	2,669	3	7,245	0	29	5	-126.50	
22	2571.75	161,958	-2,413	2,174	2,885	3	7,457	0	24	0	6.50	
23	2569.75	159,468	-2,490	3,662	2,664	2	8,710	0	27	0	-81.00	
24	2566.92	155,988	-3,480	3,030	2,614	2	8,957	0	27	0	-142.30	
25	2569.60	159,283	3,295	2,639	2,587	2	1,850	0	25	0	-58.30	
26	2574.45	165,358	6,075	5,305	2,471	2	1,605	0	25	0	-73.20	
27	2574.66	165,625	267	3,506	2,945	2	6,100	0	23	0	-63.00	
28	2573.40	164,030	-1,595	2,937	1,910	2	6,417	0	23	0	-4.30	
29	2571.99	162,258	-1,772	2,920	2,118	3	6,760	0	22	0	-30.50	
30	2570.96	160,971	-1,287	3,181	2,126	3	6,319	0	21	0	-256.50	
Total			-4,819	84,753	86,820	68	172,615	0	246	805	-2,791	

1/ Values supplied by LADWP, not verified by DWR.

Table 26. Elderberry Forebay

Daily Operation

(in acre-feet except as noted)

Capacity: 32,476 ac-ft

September 2004

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow		Outflow			Computed Losses (-) And Gains (+)	
				Castaic Powerplant Generation 1/	Natural	Castaic Powerplant Pumpback 1/	To Castaic Lake			
							Natural	Project 1/		
Aug 31	1513.00	20,357								
1	1520.30	23,369	3,012	9,105	0	2,876	0	3,218	1	
2	1519.40	22,986	-383	7,493	0	3,669	0	4,207	0	
3	1523.60	24,798	1,812	9,060	0	2,523	0	4,725	0	
4	1517.30	22,104	-2,694	4,226	0	4,132	0	2,787	-1	
5	1514.20	20,837	-1,267	2,540	0	3,845	0	0	38	
6	1512.60	20,199	-638	5,093	0	3,945	0	1,785	-1	
7	1516.10	21,609	1,410	7,048	0	2,368	0	3,271	1	
8	1518.50	22,606	997	6,752	0	1,436	0	4,318	-1	
9	1519.50	23,028	422	6,876	0	2,066	0	4,387	-1	
10	1521.70	23,970	942	7,438	0	1,870	0	4,627	1	
11	1519.40	22,986	-984	2,699	0	817	0	2,866	0	
12	1514.85	21,099	-1,887	2,443	0	4,187	0	0	-143	
13	1516.85	21,918	819	5,652	0	2,502	0	2,331	0	
14	1517.30	22,104	186	5,704	0	1,101	0	4,417	0	
15	1517.20	22,063	-41	6,359	0	3,086	0	3,314	0	
16	1518.70	22,690	627	6,019	0	1,433	0	3,960	1	
17	1523.40	24,710	2,020	8,085	0	1,788	0	4,277	0	
18	1516.70	21,856	-2,854	2,430	0	2,139	0	3,144	-1	
19	1507.80	18,347	-3,509	1,373	0	4,859	0	0	-23	
20	1510.90	19,532	1,185	4,800	0	2,486	0	1,128	-1	
21	1516.00	21,568	2,036	7,245	0	2,271	0	2,940	2	
22	1516.20	21,650	82	7,457	0	2,174	0	5,200	-1	
23	1521.30	23,798	2,148	8,710	0	3,662	0	2,899	-1	
24	1526.40	26,040	2,242	8,957	0	3,030	0	3,686	1	
25	1520.90	23,625	-2,415	1,850	0	2,639	0	1,624	-2	
26	1511.91	19,927	-3,698	1,605	0	5,305	0	0	2	
27	1513.35	20,496	569	6,100	0	3,506	0	1,922	-103	
28	1514.50	20,958	462	6,417	0	2,937	0	3,019	1	
29	1520.90	23,625	2,667	6,760	0	2,920	0	1,171	-2	
30	1522.00	24,100	475	6,319	0	3,181	0	2,666	3	
Total				3,743	172,615	0	84,753	0	83,889 -230	

1/ Values supplied by LADWP, not verified by DWR.

Table 27. Castaic Lake

Daily Operation

(in acre-feet except as noted)

Capacity: 323,699 ac-ft

September 2004

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow		Outflow		Computed Losses (-) And Gains (+)	
				From Elderberry Forebay /1		Natural	Deliveries		
				Natural	Project				
Aug 31	1502.76	297,017							
1	1503.07	297,676	659	0	3,218	0	2,375	100	
2	1503.74	299,104	1,428	0	4,207	0	2,612	98	
3	1504.64	301,027	1,923	0	4,725	0	2,694	98	
4	1504.67	301,092	65	0	2,787	0	2,617	98	
5	1503.44	298,464	-2,628	0	0	0	2,583	0	
6	1503.05	297,633	-831	0	1,785	0	2,595	0	
7	1503.29	298,144	511	0	3,271	0	2,708	0	
8	1504.10	299,872	1,728	0	4,318	0	2,625	0	
9	1504.83	301,435	1,563	0	4,387	0	2,647	0	
10	1505.71	303,324	1,889	0	4,627	0	2,475	0	
11	1505.80	303,518	194	0	2,866	0	2,637	0	
12	1504.54	300,813	-2,705	0	0	0	2,619	0	
13	1504.45	300,621	-192	0	2,331	0	2,594	0	
14	1505.25	302,336	1,715	0	4,417	0	2,509	0	
15	1505.49	302,851	515	0	3,314	0	2,812	0	
16	1506.03	304,013	1,162	0	3,960	0	2,760	0	
17	1506.72	305,502	1,489	0	4,277	0	2,677	0	
18	1506.85	305,783	281	0	3,144	0	2,877	0	
19	1505.56	303,002	-2,781	0	0	0	2,647	0	
20	1504.68	301,113	-1,889	0	1,128	0	2,833	0	
21	1504.74	301,242	129	0	2,940	0	2,819	0	
22	1505.79	303,496	2,254	0	5,200	0	2,834	0	
23	1505.78	303,475	-21	0	2,899	0	2,854	0	
24	1505.88	303,690	215	0	3,686	0	2,979	0	
25	1505.26	302,357	-1,333	0	1,624	0	2,928	0	
26	1503.89	299,424	-2,933	0	0	0	2,935	0	
27	1503.45	298,485	-939	0	1,922	0	2,881	0	
28	1503.56	298,720	235	0	3,019	0	2,809	0	
29	1502.86	297,229	-1,491	0	1,171	0	2,676	0	
30	1503.08	297,697	468	0	2,666	0	2,654	0	
Total				680	0	83,889	0	394	
								-1,550	

1/ Values supplied by LADWP, not verified by DWR.

Table 28. Governor Edmund G. Brown California Aqueduct
 Southern Field Division, Monthly Deliveries (West Branch)

(In acre-feet)

September 2004

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending					Table A Amount	Rec.	Local	ST Bank Recovery	Arvin-Edsion Water Bank Recovery		
	No.	Structure	Mile									
29A	42	Oso Pumping Plant	1.49		87,569							
29F	W2	Quail Lake	5.02	Antelope Valley-East Kern Water Agency	Removed	805	2					
		Quail Lake Embankment	7.82	Antelope Valley-East Kern Water Agency	Stub							
		Warne Power Plant	14.07		86,820							
29H	W3	Pyramid Lake		Calif. State Park Pyramid Recreation	2	805	2					
			14.10	United Water Conservation Dist.	805							
		Pyramid Dam	17.10	Piru Creek Fish Enhancement	0							
		Castaic Power Plant	25.82	(84,753 AF pumpback) 2/	172,615							
29J	W4	Elderberry Forebay				52						
		Forebay Dam	28.12									
		Castaic Lake		Calif. State Park Castaic Lake Recreation	52							
30 1/	W5	Castaic Dam	31.47			17,254 58,494 2,941 2,524	52					
		Castaic Lake Outlet	31.55	MWD - 78"	17,254							
				MWD - 132"	58,494							
				Castaic Lake WA - T1	2,941							
				Castaic Lake WA	2,524							
				United Water Conservation Dist.	0							
				MWD - Ventura County FCD	0							
				LA Co. Parks & Recreation	0							
				Releases to Lagoon	394							
				Reach 30 Subtotal:	81,265	81,213	52	0	0	0		
	W6	Castaic Lagoon		Recreation to Lagoon	394		394					
		Castaic Lagoon Outlet	31.87		145							

1/ Reach 30 actually terminates at mile 31.50. It is shown here as including the outlet works at mile 31.55.

All deliveries from the outlet works and from the Lagoon are billed to Reach 30.

2/ Value supplied by LADWP, not verified by DWR.

Table 29. Silverwood Lake

Daily Operation

(in acre-feet except as noted)

Capacity: 74,970 ac-ft

September 2004

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow			Outflow				Computed Losses (-) And Gains (+)	Las Flores Ranch Exchange 1/		
				Mojave Siphon Power-plant	Mojave Bypass Flume	Natural Stream Flow	Delivered to CLAWA	Rec.	San Bernardino Tunnel	Del. To Mojave W.A.	Natural To Mojave River			
Aug 31	3351.51	71,606												
1	3350.89	71,017	-589	2,530	0	0	9	0	3,120	0	0	10	0	
2	3351.14	71,247	230	3,226	0	0	10	0	2,974	0	0	-12	0	
3	3351.12	71,235	-12	3,095	0	0	9	0	3,082	0	1	-15	0	
4	3351.37	71,473	238	3,224	0	0	11	0	2,962	0	0	-13	0	
5	3352.21	72,274	801	3,805	0	0	10	0	3,096	0	0	102	0	
6	3352.66	72,705	431	3,429	0	0	10	1	2,939	0	1	-47	0	
7	3351.77	71,853	-852	2,303	0	0	10	0	3,259	0	0	114	0	
8	3351.82	71,901	48	3,250	0	0	12	0	3,208	0	0	18	0	
9	3351.74	71,825	-76	3,248	0	0	9	0	3,270	0	1	-44	0	
10	3351.43	71,530	-295	2,930	0	0	11	1	3,222	0	0	9	0	
11	3351.91	71,987	457	3,523	0	0	8	0	3,029	0	0	-29	0	
12	3351.43	71,530	-457	2,699	0	0	10	0	3,188	0	1	43	0	
13	3351.34	71,444	-86	3,267	0	0	10	0	3,357	0	0	14	0	
14	3350.98	71,102	-342	2,802	0	0	7	1	3,054	0	0	-82	0	
15	3350.08	70,252	-850	2,278	0	0	8	0	3,170	0	1	51	0	
16	3350.14	70,308	56	3,283	0	0	9	0	3,285	0	0	67	0	
17	3349.94	70,120	-188	2,788	0	0	9	0	3,006	0	0	39	0	
18	3349.83	70,016	-104	3,294	0	0	7	1	3,274	0	1	-115	0	
19	3350.45	70,601	585	3,695	0	0	9	0	3,118	0	0	17	0	
20	3350.61	70,752	151	3,323	0	0	10	0	3,221	0	0	59	0	
21	3350.36	70,516	-236	3,301	0	0	9	0	3,334	0	1	-193	0	
22	3350.11	70,280	-236	3,026	0	0	7	1	3,237	0	0	-17	0	
23	3350.50	70,648	368	3,584	0	0	8	0	3,278	0	0	70	0	
24	3350.40	70,554	-94	3,172	0	0	7	0	3,255	0	1	-3	0	
25	3351.18	71,292	738	3,942	0	0	8	0	3,219	0	0	23	0	
26	3351.12	71,235	-57	3,217	0	0	7	1	3,261	0	0	-5	0	
27	3351.20	71,311	76	3,345	0	0	8	0	3,325	0	1	65	0	
28	3352.81	72,849	1,538	3,462	0	0	8	0	3,282	0	0	1,366	0	
29	3351.74	71,825	-1,024	3,213	0	0	8	0	2,966	0	0	-1,263	0	
30	3351.65	71,739	-86	3,618	0	1	8	1	3,645	0	1	-50	0	
Total				133	95,872	0	1	266	7	95,636	0	10	179	0

1/ Project water delivered from Mojave Siphon in exchange for like amount of Natural Streamflow.

Table 30. Lake Perris

Daily Operation

(in acre-feet except as noted)

Capacity: 131,452 ac-ft

September 2004

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow 1/	Outflow 2/	Computed Losses (-) Gains (+) 1/
Aug 31	1583.35	116,354				
1	1583.40	116,465	111		8	
2	1583.30	116,243	-222		10	
3	1583.30	116,243	0		9	
4	1583.30	116,243	0		9	
5	1583.40	116,465	222		9	
6	1583.30	116,243	-222		8	
7	1583.20	116,021	-222		10	
8	1583.20	116,021	0		9	
9	1583.30	116,243	222		7	
10	1583.30	116,243	0		10	
11	1583.33	116,310	67		8	
12	1583.35	116,354	44		9	
13	1583.37	116,398	44		9	
14	1583.38	116,421	23		9	
15	1583.37	116,398	-23		9	
16	1583.20	116,021	-377		8	
17	1583.20	116,021	0		9	
18	1583.25	116,132	111		8	
19	1583.25	116,132	0		9	
20	1583.25	116,132	0		9	
21	1583.15	115,911	-221		9	
22	1583.10	115,800	-111		9	
23	1583.10	115,800	0		8	
24	1583.10	115,800	0		9	
25	1583.13	115,866	66		8	
26	1583.15	115,911	45		9	
27	1583.15	115,911	0		9	
28	1583.38	116,421	510		9	
29	1583.38	116,421	0		9	
30	1583.38	116,421	0		8	
Total			67	1,702	263	-1,372

1/ Readings are not taken on a daily basis. End of month only.

2/ Includes deliveries of 263 AF to MWD from Reach 28J.

Table 31a. Governor Edmund G. Brown California Aqueduct

Southern Field Division, Monthly Deliveries (East Branch)

(In acre-feet)

September 2004

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending					Table A Amount	Rec.	Transfer	ST Bank Recovery	Arvin-Edsion Water Bank Recovery		
	No.	Structure	Mile									
17E	40	Edmonston Pumping Plant	293.45		195,604							
	41		298.65	Kern County Water Agency Tej.-Cas	Stub							
17F		Check No. 41	303.41									
18A	42	Check No. 42	304.99									
19	43	Alamo Powerplant	305.73	(Does not include 10,307 AF flow down Cottonwood Chute)	96,465							
			308.05	Antelope Valley-East Kern WA	0							
		Check No. 43	309.70									
	44		311.84	LADWP Connection	0							
			313.50	AVEK 245th Street West	0							
	Check No. 44		314.81									
	45		314.93	AVEK 235th Street West	0							
			315.57	AVEK 225th Street West	0							
	Check No. 45		319.74									
	46		323.19	Antelope Valley-East Kern WA Fairmont	883		883	157	0	0		
				Mojave Water Agency Fairmont	157							
		Check No. 46	323.84									
				Reach 19 Total:	1,040							
20A	47	Check No. 47	326.77				177	0	0	0		
	48		326.91	Antelope Valley-East Kern WA Willow Springs Siphon	177							
			329.65	Antelope Valley-East Kern WA 120th Street West	Re- moved							
		Check No. 48	330.82									
	49	Check No. 49	335.93									
	50		336.73	AVEK WA - Quartz Hill (Wheeled for Palmdale WD)	0		4,770	82	0	0		
				Antelope Valley-East Kern WA	4,770							
			339.68	Antelope Valley-East Kern WA	82							
20B	Check No. 50		341.51				3	0	0	0		
	51	Check No. 51	342.07									
	52		342.80	Antelope Valley-East Kern WA 30th Street West	Not in Use							
			343.30	Antelope Valley-East Kern WA Temporary 12	3							
	Check No. 52		343.74									
	53		346.98	PWD Palmdale	1,774		1,774	226	0	0		
			348.14	Antelope Valley-East Kern WA Acton Treatment Plant	226							
21	Check No. 53		348.17				147	0	0	0		
	54	Check No. 54	350.25									
	55	Check No. 55	352.70									
	56	Check No. 56	354.76									
			354.97	Littlerock Creek I.D.	0							
22A	57	Check No. 57	356.93				484	0	0	0		
	58		357.60	Antelope Valley-East Kern WA	147							
			357.72	Antelope Valley-East Kern WA 96th Street East	0							
			359.82	Antelope Valley-East Kern WA East Side Treatment Plant	484							

Table 31b. Governor Edmund G. Brown California Aqueduct
 Southern Field Division, Monthly Deliveries (East Branch, Continued)

(In acre-feet)

September 2004

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending					Table A Amount	Recreation	Ex-change	ST Bank Recovery	Arvin-Edsion Water Bank Recovery		
	No.	Structure	Mile									
22B	58	Pearblossom Pumping Plant	360.61		94,362	85						
	59	Check No. 59	366.09									
	60		366.50	Antelope Valley-East Kern WA	85							
		Check No. 60	373.94									
	61	Check No. 61	379.00									
	62	Check No. 62	384.26									
	63		389.20	Mojave Water Agency Mojave River	745							
			394.60	Mojave Water Agency Temporary	0							
		Check No. 63										
	64	Check No. 64	395.10									
	65	Check No. 65	400.32									
	66		401.10	Mojave Water Agency Morongo 24" and 42"	475							
				Mojave Water Agency Hesperia	0							
		Check No. 66	403.41									
23	67	Mojave Siphon	405.48	Las Flores Ranch	0	264						
		Mojave Siphon Powerplant	405.65		95,872							
24		Silverwood Lake	407.65	Crestline Lake Arrowhead Water Agency	264							
				Calif. State Park Silverwood Agency (Rec.)	7							
25	67	San Bernardino Tunnel Intake	407.70		95,636							
		Devil Canyon Powerplant	412.73		95,636							
26A	68	Devil Canyon Afterbay Control Structures	412.88	MWD-SC Rialto	1,228	1,228						
				Desert Water Agency (MWD Wheeling Exchange)	0							
				MWD-SC T290	49,236							
				San Gabriel Valley Water District	0							
				Coachella Valley WD (MWD Wheeling Exchange)	0							
				San Bernardino Valley MWD 24" and 72"	0							
				San Bernardino Valley MWD 48"	0							
				MWD (SBVMWD Exchange) T291	7,122							
				San Gorgonio Pass Water Agency	0							
28G	69	Santa Ana Valley Pipeline	425.46			15,206						
28H			433.06	MWD-SC Box Springs	10,163							
			440.05	MWD-SC Perris Bypass Pipeline	22,240							
28J	69	Lake Perris	442.00	MWD-SC 18"	263							
			443.44	MWD-SC 54"	0							
				MWD-SC 78"	0							
				Calif. State Park Lake Perris Recreation	0							
				MWD Total:	166,000		131,970	0	0	22,400		
										11,630		

Table 32. Water Quality At Selected SWP Locations

September 2004

Constituent	Units	Thermalito Afterbay At Outlet	North Bay Aqueduct Barker Slough Pumping Plant	Banks Pumping Plant	Delta Mendota Canal At McCabe Rd.	California Aqueduct				Devil Canyon Afterbay Near San Bernardino
						O'Neill Forebay Outlet (Check 13)	Kettleman City (Check 21)	Near Hwy 119 (Check 29)	Tehachapi Afterbay (Check 41)	
Alkalinity	mg/l as CaCO ₃	37	88	71	84	72	68	72	68	66
Antimony	mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NR	NR
Arsenic	mg/l	<0.001	0.003	0.003	0.003	0.003	0.003	0.004	0.004	0.003
Beryllium	mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Boron	mg/l	<0.1	<0.1	<0.1	0.2	<0.1	0.1	0.1	<0.1	<0.1
Bromide	mg/l	<0.01	0.03	0.22	0.27	0.24	0.22	0.22	0.23	0.18
Calcium	mg/l	8	15	15	24	16	16	18	17	16
Carbon - Dissolved Organic	mg/l as C	NR	3	3	3	3	3	3	3	3
Carbon - Total Organic	mg/l as C	NR	4	3	3	3	3	3	3	5
Chloride	mg/l	1	13	67	82	74	72	67	69	58
Chromium	mg/l	<0.001	0.002	0.002	0.003	0.003	0.003	0.003	0.003	0.002
Copper	mg/l	<0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.006
Fluoride	mg/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	<0.1	<0.1
Hardness	mg/l as CaCO ₃	32	79	83	118	85	85	82	80	77
Iron	mg/l	<0.005	<0.005	0.009	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Lead	mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Magnesium	mg/l	3	10	11	14	11	11	9	9	9
Manganese	mg/l	<0.005	0.010	0.012	<0.005	0.005	<0.005	<0.005	<0.005	0.023
Nitrate + Nitrite	mg/l as N	0.01	0.18	0.20	NR	0.24	0.26	0.41	0.41	0.36
Phosphorus-Ortho	mg/l as P	<0.01	0.11	0.06	NR	0.06	0.06	<0.01	0.05	0.08
Phosphorus-Total	mg/l	0.01	0.20	0.09	NR	0.08	0.08	0.06	0.08	0.08
Selenium	mg/l	<0.001	<0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Sodium	mg/l	3	16	46	57	45	44	45	45	38
Specific Conductance	µS/cm	77	239	392	517	417	401	422	434	363
Sulfate	mg/l	2	13	18	50	25	23	28	28	24
Total Dissolved Solids	mg/l	50	139	234	306	234.5	227	234	244.5	206
Turbidity	NTU	2	47	8	12	3	3	3	5	1
Zinc	mg/l	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0

mg/l milligrams per liter

µg/l micrograms per liter

µS/cm microSiemens per centimeter

NR - Not Reported

NTU - nephelometric turbidity units

Table 33. Water Quality At Selected Delta Stations

September 2004

Date	Antioch Tides (feet above mean sea level)		Flow In CFS		Rio Vista	Electrical Conductivity in milliSiemens/cm								Cl in mg/l		
			Net Delta Outflow Index			Antioch	Chipps Island	Emmaton		Jersey Point		Clifton Court	Cache Slough	Delta Mendota Canal		
	Highest High Tide	Actual High Half Tide	Mean Daily	Monthly Average		md	md	md	14dm	md	14dm	md	md	md		
38	1	2.89	1.35	3,573	3,573	8,447	2.76	8.21	0.67	0.62	0.94	0.83	0.38	0.40	0.33	91
	2	2.94	1.33	3,606	3,589	8,375	2.69	8.01	0.58	0.64	0.95	0.85	0.39	0.45	0.33	93
	3	2.98	1.25	3,666	3,615	8,610	2.54	7.77	0.38	0.64	0.98	0.87	0.42	0.45	0.33	96
	4	3.00	1.17	4,872	3,929	8,656	2.50	7.17	0.55	0.65	0.95	0.89	0.44	0.45	0.36	96
	5	3.06	1.30	3,942	3,932	8,518	2.72	7.59	0.63	0.65	1.03	0.91	0.44	0.47	0.35	94
	6	3.13	1.45	4,352	4,002	8,591	3.03	8.15	0.66	0.66	1.07	0.93	0.45	0.50	0.36	95
	7	3.21	1.57	4,653	4,095	8,445	3.26	8.61	0.67	0.67	1.13	0.95	0.45	0.51	0.36	97
	8	3.28	1.61	6,043	4,338	8,428	3.58	9.21	0.76	0.68	1.16	0.97	0.43	0.46	0.35	97
	9	3.55	1.74	7,024	4,637	8,562	3.71	10.27	0.94	0.70	1.24	1.00	0.41	0.47	0.35	95
	10	3.55	1.78	6,410	4,814	8,383	4.11	10.92	1.15	0.74	1.27	1.03	0.41	0.47	0.34	97
	11	3.45	1.56	4,888	4,821	8,083	3.86	10.21	1.05	0.76	1.25	1.06	0.40	0.46	0.36	96
	12	3.41	1.60	4,863	4,824	8,173	3.80	10.24	1.00	0.77	1.25	1.08	0.42	0.46	0.36	98
	13	3.40	1.49	4,608	4,808	7,953	3.93	10.34	1.14	0.78	1.25	1.10	0.44	0.49	0.37	101
	14	3.09	1.26	4,749	4,804	8,201	3.42	9.24	0.68	0.78	1.14	1.12	0.45	0.53	0.38	102
	15	2.96	1.29	4,375	4,775	8,049	3.42	9.48	0.96	0.80	1.19	1.13	0.41	0.47	0.38	105
	16	3.00	1.40	4,317	4,746	7,892	3.61	9.87	1.08	0.83	1.27	1.16	0.41	0.42	0.37	110
	17	3.38	1.53	4,131	4,710	7,778	4.11	10.57	1.32	0.90	1.34	1.18	0.42	0.39	0.38	112
	18	3.37	1.56	3,543	4,645	7,422	4.31	10.81	1.24	0.95	1.35	1.21	0.41	0.43	0.39	113
	19	3.49	1.50	3,708	4,596	7,799	4.15	10.18	1.08	0.98	1.39	1.24	0.41	0.49	0.38	112
	20	3.06	1.14	4,683	4,600	8,082	3.65	8.30	0.83	0.99	1.23	1.25	0.47	0.59	0.39	111
	21	3.05	1.06	4,786	4,609	8,029	3.28	7.59	0.93	1.01	1.26	1.26	0.51	0.60	0.38	111
	22	3.11	1.13	4,715	4,614	7,743	3.34	0.00	1.05	1.03	1.29	1.27	0.51	0.55	0.38	112
	23	3.04	1.10	4,547	4,611	7,698	3.58	0.00	1.06	1.04	1.29	1.27	0.52	0.52	0.41	122
	24	3.04	1.04	4,092	4,589	7,668	3.84	9.32	1.21	1.05	1.37	1.28	0.51	0.50	0.43	128
	25	3.08	1.15	3,681	4,553	7,087	4.10	10.20	1.48	1.08	1.45	1.29	0.40	0.46	0.40	136
	26	3.05	1.05	3,947	4,530	6,950	4.09	9.89	1.42	1.11	1.48	1.31	0.49	0.49	0.40	137
	27	2.87	1.08	3,264	4,483	6,918	4.21	10.58	1.46	1.13	1.50	1.33	0.51	0.50	0.40	144
	28	2.69	1.11	2,588	4,415	6,518	4.51	10.99	1.75	1.21	1.54	1.35	0.51	0.48	0.39	142
	29	2.82	1.15	2,698	4,356	6,213	4.50	11.25	1.65	1.25	1.53	1.38	0.53	0.45	0.40	142
	30	2.92	1.17	3,245	4,319	6,228	4.60	11.35	1.73	1.30	1.62	1.40	0.56	0.48	0.39	146

Clifton Court Cl(mg/l)=200X EC - 25

e = Estimated

N.R. = No Record.

N.C. = Not computed due to insufficient data.

f = Excess Delta conditions with fish concerns.

r = Excess delta conditions with export/inflow ratio concerns.

s = Balanced water conditions with storage withdrawals.

dm = Daily Mean

md = Mean Daily

Table 34. Pesticides, Herbicides, and Other Organic Substances Detected In the SWP

September 2004

Sampling Location	Sample Date 1/	Chemical Detected	Concentration µg/l 2/
North Bay Aqueduct At Barker Slough Pumping Plant	September 15, 2004	None Detected	
California Aqueduct At Banks Pumping Plant	September 15, 2004	2,4-D	0.20
O'Niell Forebay Outlet Check 13	September 15, 2004	2,4-D	0.1
Delta Mendota Canal At McCabe Road	September 15, 2004	2,4-D	0.3
California Aqueduct Near Kettleman City (Check 21)	September 15, 2004	2,4-D	0.2
California Aqueduct At Near Highway 119 (Check 29)	September 15, 2004	2,4-D	0.1
California Aqueduct at Devil Canyon Headworks	September 15, 2004	2,4-D	0.1
California Aqueduct At Tehachapi Afterbay (Check 41)	September 15, 2004	None Detected	

1/ Locations are normally sampled during March, June, and September. Monthly reports will include data for the month in which samples were most recently taken.

2/ Micrograms per liter.

Table 35. Oroville and Delta Field Divisions Energy Data

(in kWh)

September 2004

Date	Oroville Thermalito Complex		Barker Slough Pumping Plant	Cordelia Pumping Plant Load	Banks Pumping Plant		South Bay Pumping Plant Load	Del Valle Pumping Plant Load
	Generation	Load			Total Load	SWP Load		
1	5,544,576	1,440	57,470	41,629	3,795,456	3,686,456	340,760	253
2	6,900,480	2,304	53,662	40,579	3,768,960	3,659,960	310,880	218
3	6,856,704	2,304	51,849	40,348	3,310,080	3,201,080	320,510	188
4	6,972,480	2,880	56,287	41,293	2,896,512	2,787,512	333,830	221
5	5,875,776	2,880	50,834	38,507	3,270,144	3,161,144	322,575	211
6	5,830,272	3,168	46,991	37,856	3,576,000	3,467,000	349,740	177
7	6,789,600	4,032	44,359	35,413	3,213,120	3,104,120	330,355	178
8	4,467,744	4,896	59,171	40,390	2,921,280	2,812,280	257,490	200
9	4,987,872	6,048	53,606	41,881	2,417,856	2,368,856	228,630	190
10	3,759,552	14,112	52,052	39,718	3,077,952	3,077,952	229,310	172
11	955,872	18,432	54,523	41,377	3,117,888	3,117,888	229,425	169
12	2,584,224	14,112	49,469	37,835	2,907,840	2,907,840	229,090	171
13	5,738,688	10,080	45,822	38,395	3,144,192	3,144,192	230,070	176
14	4,810,176	9,216	42,273	37,821	2,890,176	2,890,176	233,365	194
15	5,093,568	7,488	48,342	39,844	3,465,792	3,465,792	237,405	201
16	4,677,408	4,320	52,703	40,845	2,871,360	2,871,360	236,510	191
17	4,636,512	3,744	61,593	43,176	3,049,728	3,049,728	236,615	164
18	686,016	6,912	63,112	44,212	2,867,328	2,867,328	230,035	149
19	1,397,952	7,488	58,765	44,037	3,112,704	3,112,704	157,360	146
20	1,571,040	5,472	51,401	40,817	3,241,344	3,241,344	187,760	143
21	3,303,648	6,048	40,369	37,485	3,076,416	3,076,416	171,400	146
22	4,349,088	4,608	40,488	37,716	3,593,856	3,593,856	171,390	151
23	4,582,944	2,880	48,258	41,734	3,491,712	3,491,712	181,475	192
24	4,885,344	466,272	49,833	41,006	3,587,328	3,587,328	210,090	227
25	2,319,840	6,336	54,502	41,104	3,089,280	3,089,280	203,215	225
26	3,323,520	5,472	51,968	40,383	2,906,688	2,906,688	204,135	224
27	3,140,928	6,336	45,563	36,330	2,809,728	2,809,728	190,425	187
28	3,077,280	5,760	44,009	33,474	3,190,080	3,190,080	205,185	142
29	3,010,464	6,048	40,537	35,763	3,049,344	3,049,344	213,840	142
30	2,557,440	5,184	42,014	36,239	2,698,944	2,698,944	211,475	144
Total	124,687,008	646,272	1,511,825	1,187,207	94,409,088	93,488,088	7,194,345	5,492

Table 36. San Luis Field Division Energy Data

September 2004

(in kWh)

Date	Dos Amigos Pumping Plant		Gianelli Pumping-Generating Plant			
	Total Load	SWP Load 1/	Total Generation	SWP Generation 1/	Total Load	SWP Load 1/
1	1,209,600	1,071,600	0	0	1,912,608	1,264,608
2	1,436,112	1,298,112	0	0	1,755,648	1,107,648
3	1,324,800	1,186,800	0	0	1,410,624	762,624
4	1,292,832	1,154,832	0	0	1,931,328	1,283,328
5	1,395,216	1,179,216	0	0	1,680,192	528,192
6	1,208,448	992,448	0	0	1,127,808	-24,192
7	1,125,792	909,792	26,208	26,208	1,094,112	446,112
8	1,181,376	965,376	0	0	1,172,160	308,160
9	1,158,048	942,048	0	0	843,552	15,552
10	1,157,328	941,328	0	0	1,045,152	217,152
11	1,353,168	1,137,168	0	0	1,133,856	1,133,856
12	1,004,400	788,400	0	0	2,060,928	174,928
13	1,140,912	924,912	0	0	312,480	13,480
14	1,022,256	806,256	0	0	1,046,016	425,016
15	1,172,304	956,304	0	0	1,703,520	1,404,520
16	1,114,416	898,416	0	0	1,586,016	965,016
17	1,143,936	927,936	0	0	1,577,664	1,048,664
18	1,186,128	970,128	0	0	1,226,304	927,304
19	1,283,040	1,067,040	0	0	2,848,896	1,583,896
20	1,148,544	932,544	0	0	424,224	10,224
21	1,192,608	976,608	0	0	1,203,840	582,840
22	1,052,928	836,928	0	0	1,481,760	914,760
23	1,044,576	828,576	0	0	1,557,504	990,504
24	1,132,992	916,992	0	0	1,889,856	1,322,856
25	1,080,720	864,720	0	0	1,846,080	1,361,080
26	1,031,904	815,904	0	0	2,615,040	1,236,040
27	967,680	751,680	0	0	1,479,744	912,744
28	1,050,480	834,480	0	0	2,194,560	1,627,560
29	804,816	588,816	0	0	1,746,432	1,251,432
30	1,123,488	907,488	0	0	1,916,352	1,421,352
Total	34,540,848	28,372,848	26,208	26,208	45,824,256	25,217,256

1/ Negative values may appear in SWP columns and indicate a mismatch of scheduled CVP energy and actual pumping; adjustments to SWP water shares are made to balance the mismatch.

Table 37. San Joaquin Field Division Pumping Plant Energy Load Data

(in kWh)

September 2004

Date	Coastal Branch					California Aqueduct			
	Las Perillas	Badger Hill	Devils Den	Bluestone	Polonio	Buena Vista	Teerink	Chrisman	Edmonston
1	29,570	78,024	88,060	81,730	87,530	1,585,008	1,728,504	3,774,816	13,795,200
2	24,772	62,856	70,560	64,320	65,745	1,692,936	1,813,680	3,955,680	14,621,760
3	22,850	62,120	101,860	96,355	96,230	1,682,208	1,815,912	4,027,392	14,680,800
4	33,530	89,280	90,360	86,275	87,560	1,955,520	2,225,808	4,929,696	18,227,520
5	27,426	72,904	109,930	104,455	108,125	1,899,576	2,193,192	4,926,528	18,175,680
6	26,046	68,120	88,345	82,895	87,075	1,630,584	1,871,352	4,112,352	15,218,640
7	23,950	60,392	73,425	67,515	70,150	1,464,048	1,670,904	3,629,376	13,175,280
8	26,688	67,792	92,445	89,575	90,370	1,608,912	1,731,672	3,781,152	13,841,280
9	26,584	71,448	90,490	87,095	87,215	1,583,208	1,761,408	3,891,168	14,401,440
10	18,870	50,896	92,785	88,850	90,035	1,586,736	1,768,536	3,905,856	14,378,400
11	23,778	63,032	89,435	84,020	86,095	1,815,840	2,035,584	4,538,016	16,618,320
12	25,850	70,608	103,850	97,045	102,260	1,432,008	1,662,480	3,666,816	13,614,480
13	18,450	47,616	77,095	73,400	74,965	1,631,304	1,855,584	4,070,592	14,790,240
14	21,818	55,912	103,440	99,605	100,490	1,453,104	1,639,800	3,600,288	13,467,600
15	24,874	64,000	83,460	79,645	80,870	1,659,456	1,750,824	3,861,504	13,906,080
16	27,820	72,728	92,310	89,655	89,375	1,588,536	1,762,776	3,904,992	14,271,840
17	27,788	71,496	101,400	97,590	97,690	1,544,328	1,675,152	3,682,080	13,679,280
18	29,772	76,904	113,070	110,420	109,560	1,761,624	2,053,944	4,578,912	16,981,200
19	27,650	75,664	104,205	97,320	101,080	1,900,728	2,171,304	4,865,184	18,178,560
20	22,196	59,816	71,330	67,080	70,555	1,603,512	1,785,168	3,926,880	14,272,560
21	22,562	60,712	85,225	80,955	83,695	1,570,176	1,737,504	3,790,656	14,130,720
22	28,902	74,672	91,215	87,165	88,930	1,548,288	1,728,720	3,795,840	13,859,280
23	34,058	87,824	97,740	93,055	94,570	1,583,856	1,799,064	3,947,616	14,442,480
24	27,828	68,784	98,015	94,885	95,340	1,570,680	1,781,640	3,969,504	14,717,520
25	30,936	76,896	96,920	92,730	93,310	1,760,616	2,002,320	4,504,032	16,506,000
26	29,534	76,632	106,765	101,325	105,035	1,573,488	1,808,208	4,062,240	15,009,840
27	21,460	53,304	75,910	71,315	75,585	1,397,376	1,607,544	3,544,704	13,102,560
28	21,974	56,352	84,535	78,770	82,995	1,436,760	1,554,192	3,482,496	12,582,720
29	26,196	67,864	90,130	86,090	87,735	1,242,648	1,468,008	3,289,536	12,048,480
30	25,458	64,312	94,965	88,655	90,790	1,590,696	1,728,360	3,845,376	14,074,640
Total	779,190	2,028,960	2,759,275	2,619,790	2,680,960	48,353,760	54,189,144	119,861,280	440,770,400

Table 38. Southern Field Division Energy Data

(in kWh)

September 2004

Date	West Branch			East Branch						
	Oso Pumping Plant Load	Warne Powerplant Generation	Castaic SWP Generation	Alamo Powerplant Generation	Pearblossom Pumping Plant Load	Devil Canyon Powerplant Generation	Mojave Siphon Powerplant Generation	Cherry Valley Pumping Plant	Crafton Hills Pumping Plant	Green Spot Pumping Plant
1	723,072	1,628,568	2,880,000	365,596	1,951,920	3,745,248	190,197	939	7,580	7,542
2	871,192	1,792,512	2,880,000	366,100	1,873,428	3,579,936	258,552	1,362	4,713	7,967
3	823,536	1,762,704	2,880,000	360,780	2,151,672	3,717,216	235,578	531	5,480	9,762
4	1,076,936	1,730,736	2,880,000	418,852	2,267,640	3,546,240	252,294	516	609	683
5	977,928	1,662,624	2,880,000	420,868	2,478,648	3,739,392	289,548	571	629	724
6	763,280	1,756,224	2,880,000	395,892	2,199,372	3,575,520	263,466	660	637	758
7	828,296	1,712,520	2,880,000	269,192	1,597,668	3,886,368	173,670	1,508	9,069	14,182
8	686,224	1,758,960	2,880,000	363,104	2,093,472	3,831,456	247,296	1,454	10,133	12,554
9	753,984	1,764,144	2,880,000	383,880	2,096,172	3,900,384	247,863	1,361	17,791	21,010
10	715,344	1,724,328	2,880,000	399,364	2,018,400	3,881,760	226,779	847	21,299	24,118
11	854,784	1,780,992	2,880,000	414,792	2,387,796	3,684,480	266,616	656	671	6,925
12	887,544	1,770,840	2,880,000	287,532	1,829,400	3,854,784	210,756	618	680	8,669
13	760,144	1,646,208	2,880,000	391,832	2,119,392	4,002,048	246,729	863	13,092	19,285
14	763,728	1,765,368	2,880,000	344,288	1,853,424	3,714,720	218,169	730	13,264	18,300
15	838,264	1,754,208	2,880,000	302,736	1,577,976	3,816,960	171,402	487	9,067	14,402
16	726,824	1,764,792	2,880,000	390,376	2,215,872	3,959,616	266,280	938	11,493	16,646
17	718,256	1,717,920	2,880,000	366,828	1,884,036	3,629,664	225,540	529	12,596	17,353
18	990,472	1,767,384	2,880,000	390,572	2,197,992	3,901,248	268,002	491	9,020	12,344
19	1,025,920	1,566,864	2,880,000	399,728	2,446,068	3,786,912	291,186	445	3,589	6,430
20	689,864	1,544,472	2,400,000	394,520	2,187,216	3,890,304	270,249	2,351	10,590	15,659
21	670,992	1,526,832	2,400,000	406,252	2,217,300	4,015,488	268,128	431	10,906	15,425
22	695,856	1,637,136	2,400,000	367,472	2,089,704	3,909,024	246,393	465	11,032	15,410
23	685,944	1,521,648	2,400,000	403,172	2,326,356	3,950,304	283,710	571	14,681	15,370
24	787,808	1,472,184	2,400,000	355,348	2,239,956	3,922,464	258,090	862	15,894	16,050
25	896,224	1,451,232	2,400,000	402,080	2,382,948	3,880,416	300,195	559	655	9,153
26	715,904	1,424,376	2,400,000	397,488	2,260,524	3,938,400	257,691	587	663	9,565
27	591,136	1,656,864	1,920,000	371,476	2,127,120	3,980,448	268,065	1,007	14,108	15,412
28	487,256	1,149,048	1,920,000	395,332	2,357,796	3,899,616	270,732	876	15,007	15,463
29	507,192	1,257,120	1,920,000	374,808	2,262,072	3,569,280	245,322	1,120	14,106	15,038
30	559,440	1,290,672	1,920,000	422,324	2,242,632	4,417,344	290,787	1,144	15,188	15,416
Total	23,073,344	48,759,480	79,200,000	11,322,584	63,933,972	115,127,040	7,509,285	25,479	274,242	377,615